Explore Your Environment K-8 Activity Guide SC Academic Standards Correlations



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<u>Note:</u> While PLT has assigned specific activities to specific grade bands, many activities also offer a **Variation** to meet the needs of an expanded grade level. Correlations to grade-band variations of activities are noted as **(V)**. Each activity also has **Enrichment** ideas to extend the learning experience of the activity. Correlations to enrichment components of activities are noted as **(E)**.

KINDERGARTEN STANDARDS

Kindergarten Science Performance Expectations Correlation to PLT Activities

Performance Expectation	PLT Activity	
K-PS2-1. Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object.		
K-PS2-2. Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull.		
K-PS3-1. Make observations to determine the effect of sunlight on Earth's surface.		
K-PS3-2. Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area.		
K-LS1-1. Use observations to describe patterns of what plants and animals (including humans) need to survive	Backyard Safari Birds and Bugs Diversity	Trees as Habitats Discover
	Here We Grow Again The Closer You Look	Tree Factory
K-ESS2-1. Use and share observations of local weather conditions to describe patterns over time.		
K-ESS2-2. Construct an argument supported by	Did You Notice?	
evidence for how plants and animals (including	Trees as Habitats	
humans) can change the environment to meet	We All Need Trees	
their needs.		
K-ESS3-1. Use a model to represent the	Adopt a Tree	Trees as Habitats
relationship between the needs of different	Backyard Safari	Discover Diversity
plants or animals (including humans) and the	Birds and Bugs	
places they live.	Here We Grow Again	
K-ESS3-2. Ask questions to understand the purpose of weather forecasting to prepare for and respond to severe weather.		
K-ESS3-3. Obtain and communicate information	Make Your Own Paper	
to define problems related to human impact on	We All Need Trees	
the local environment.		

Kindergarten Reverse Correlations – Science

PLT Activity	Science	Performance Expectations
Adopt a Tree	K-ESS3-1	
Backyard Safari	K-LS1-1	K-ESS3-1
Birds and Bugs	K-LS1-1	K-ESS3-1
Did You Notice?	K-ESS2-2	
Here We Grow Again	K-LS1-1	K-ESS3-1
Make Your Own Paper	K-ESS3-3	

The Closer You Look	K-LS1-1		
Trees as Habitats	K-LS1-1	K-ESS2-2	K-ESS3-1
We All Need Trees	K-ESS2-2	K-ESS3-3	
Discover Diversity	K-LS1-1	K-ESS3-1	
Tree Factory	K-LS1-1		

Kindergarten Mathematics Standards Correlation to PLT Activities

Standards	PLT Activities	
K.NS.1 Count forward by ones and tens to 100.		
K.NS.2 Count forward by ones beginning from any number less than 100.		
K.NS.3 Read numbers from 0 – 20 and represent a number of	Backyard Safari	
objects 0 – 20 with a written numeral.	Birds & Bugs	
K.NS.4 Understand the relationship between number and quantity.	Backyard Safari	
Connect counting to cardinality by demonstrating an understanding	Birds & Bugs	
that: a. the last number said tells the number of objects in the set	Every Tree for Itself	
(cardinality); b. the number of objects is the same regardless of		
their arrangement or the order in which they are counted		
(conservation of number); c. each successive number name refers		
to a quantity that is one more and each previous number name		
refers to a quantity that is one less		
K.NS.5 Count a given number of objects from 1 – 20 and connect	Backyard Safari	
this sequence in a one-to one manner	Birds & Bugs	
	Discover Diversity	
	Every Tree for Itself	
	Tree Cookies	
K.NS.6 Recognize a quantity of up to ten objects in an organized	Every Tree for Itself	
arrangement (subitizing).		
K.NS.7 Determine whether the number of up to ten objects in one group is more		
than, less than, or equal to the number of up to ten objects in another group using matching and counting strategies.		
K.NS.8 Compare two written numerals up to 10 using more than, less than or equal		
to.		
K.NS.9 Identify first through fifth and last positions in a line of	Birds and Bugs	
objects.		
K.NSBT.1 Compose and decompose numbers from 11 – 19	Birds & Bugs	
separating ten ones from the remaining ones using objects and	Every Tree for Itself	
drawings.		
K.ATO.1 Model situations that involve addition and subtraction within 10 using objects, fingers, mental images, drawings, acting out situations, verbal explanations, expressions, and		
equations.		
K.ATO.2 Solve real-world/story problems using objects and	Backyard Safari	
drawings to find sums up to 10 and differences within 10.	Discover Diversity	
K.ATO.3 Compose and decompose numbers up to 10 using objects, drawings, and		
equations.		
K.ATO.4 Create a sum of 10 using objects and drawings when given one of two addends 1 – 9.		
K.ATO.5 Add and subtract fluently within 5.		
,		

K.ATO.6 Describe simple repeating patterns using AB, AAB, ABB, and ABC type patterns.	
K.G.1 Describe positions of objects by appropriately using terms, Backyard Safari	
including below, above, beside, between, inside, outside, in front Fallen Log	
of, or behind. Trees as Habitats	
K.G.2 Identify and describe a given shape and shapes of objects in Adopt a Tree	
everyday situations to include two-dimensional shapes (i.e.,	
triangle, square, rectangle, hexagon, and circle) and three-	
dimensional shapes (i.e., cone, cube, cylinder, and sphere).	
K.G.3 Classify shapes as two-dimensional/flat or three-dimensional/solid and explain the reasoning used.	
K.G.4 Analyze and compare two- and three-dimensional shapes of different sizes and orientations using informal language.	
K.G.5 Draw two-dimensional shapes (i.e., square, rectangle, triangle, hexagon, and circle) and create models of three-dimensional shapes (i.e., cone, cube, cylinder, and sphere).	
K.MDA.1 Identify measurable attributes (length, weight) of an Adopt a Tree	
object. Birds & Bugs	
Bursting Buds	
Here We Grow Again	
K.MDA.2 Compare objects using words such as shorter/longer, Adopt a Tree	
shorter/taller, and lighter/heavier. Birds & Bugs	
Bursting Buds	
Here We Grow Again	
K.MDA.3 Sort and classify data into 2 or 3 categories with data not Birds & Bugs	
to exceed 20 items in each category. Every Tree for Itself	
Have Seeds will Travel	
Trees as Habitat	
K.MDA.4 Represent data using object and picture graphs and draw Birds & Bugs	
conclusions from the graphs. Discover Diversity	
Every Tree for Itself	
Have Seeds will Travel	
Here We Grow Again	
Trees as Habitat	

Kindergarten Reverse Correlations – Mathematics

PLT Activity	Mathematics Standards
Adopt a Tree	K.G.2, K.MDA.1, K.MDA.2
Backyard Safari	K.NS.3, K.NS.4, K.NS.5, K.ATO.2, K.G.1
Birds and Bugs	K.NS.3, K.NS.4, K.NS.5, K.NS.9, K.NSBT.1, K.MDA.1, K.MDA.2, K.MDA.3,
	K.MDA.4
Bursting Buds	K.MDA.1, K.MDA.2
Have Seeds Will	K.MDA.3, K.MDA.4
Travel	
Here We Grow Again	K.MDA.1, K.MDA.2, K.MDA.4
Trees as Habitats	K.G.1, K.MDA3, K.MDA.4

Discover Diversity	K.NS.5, K.ATO.2, K.MDA.4
Every Tree for Itself	K.NS.4, K.NS.5, K.NS.6, K.NSBT.1, K.MDA.3, K.MDA.4
Fallen Log	K.G.1
Tree Cookies	K.NS.5

Kindergarten ELA Standards Correlation to PLT Activities

	Standards	PLT Activities
	Standard 1: Formulate relevant, self-generated questions based on	We all Need Trees
	interests and/or needs that can be investigated.	
INQUIRY	Standard 2: Transact with texts to formulate questions, propose explanations, and consider alternative views and multiple perspectives.	
7	Standard 3: Construct knowledge, applying disciplinary concepts and	We all Need Trees
Z	tools, to build deeper understanding of the world through	
=	exploration, collaboration, and analysis.	
	Standard 4: Synthesize integrated information to share learning and/or take action.	
	Standard 5: Reflect throughout the inquiry process to assess metacognition, broaden understanding, and guide actions, both individually and collaboratively.	

Standards	PLT Activities
Standard 1: Demonstrate understanding of the organization and basic features of	f print.
Standard 2: Demonstrate understanding of spoken words,	A Tree's Life
syllables, and sounds.	
Standard 3: Know and apply grade-level phonics and word analysis skills in decodi words.	ing
Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
Standard 5: Determine meaning and develop logical interpretations by making predictions, inferring, drawing conclusions, analyzing, synthesizing, providing evic and investigating multiple interpretations.	dence,
Standard 6: Summarize key details and ideas to support analysis of thematic development.	
Standard 7: Analyze the relationship among ideas, themes, or topics in multiple m formats, and in visual, auditory, and kinesthetic modalities.	nedia,
Standard 8: Analyze characters, settings, events, and ideas as they develop and in within a particular context.	nteract
Standard 9: Interpret and analyze the author's use of words, phrases, and conven and how their relationships shape meaning and tone in print and multimedia text	· · · · · · · · · · · · · · · · · · ·
Standard 10: Apply a range of strategies to determine and deepen the meaning o unknown, and multiple-meaning words, phrases, and jargon; acquire and use gen academic and domain-specific vocabulary.	·
Standard 11: Analyze and provide evidence of how the author's choice of point of perspective, and purpose shape content, meaning, and style.	f view,
Standard 12: Analyze and critique how the author uses structures in print and mu texts to shape meaning and impact the reader.	ıltimedia
Standard 13: Read independently and comprehend a variety of texts for the purpreading for enjoyment, acquiring new learning, and building stamina; reflect on a	
respond to increasingly complex text over time.	

	Standards	PLT Activities
	Standard 1: Demonstrate understanding of the organization and basic features of print.	TET Activities
_	Standard 2: Demonstrate understanding of spoken words, syllables, and sounds.	A Tree's Life
🔆	Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
F	Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
READING: INFORMATIONAL TEXT	Standard 5: Determine meaning and develop logical interpretations by making predictions, inferring, drawing conclusions, analyzing, synthesizing, providing evidence and investigating multiple interpretations.	Web of Life
≥	Standard 6: Summarize key details and ideas to support analysis of central ideas.	
NFOI	Standard 7: Research events, topics, ideas, or concepts through multiple media, formats, and in visual, auditory, and kinesthetic modalities.	Trees as Habitats Web of Life
= :5	Standard 8: Interpret and analyze the author's use of words, phrases, text features, conventions, and structures, and how their relationships shape meaning and tone in print and multimedia texts.	
DING	Standard 9: Apply a range of strategies to determine the meaning of known, unknown, and multiple meaning words, phrases, and jargon; acquire and use general academic and domain-specific vocabulary.	
RE/	Standard 10: Analyze and provide evidence of how the author's choice of purpose and perspective shapes content, meaning, and style.	
	Standard 11: Analyze and critique how the author uses structures in print and multimedia texts to craft informational and argument writing.	
	Standard 12: Read independently and comprehend a variety of texts for the purposes of reading for enjoyment, acquiring new learning, and building stamina; reflect on and respond to increasingly	

complex text over time.

	Standards	PLT Activities
	Standard 1: Write arguments to support claims with clear reasons and relevant evidence.	
	Standard 2: Write informative/explanatory texts to examine and	Adopt a Tree
	convey complex ideas and information clearly and accurately through	The Closer You Look
/5	the effective selection, organization, and analysis of content.	
9	Standard 3: Write narratives to develop real or imagined experiences	The Closer You Look
∣ ≓	or events using effective techniques, well-chosen details, and well-	
WRITING	structured event sequences.	
	Standard 4: Demonstrate command of the conventions of standard	Adopt a Tree
	English grammar and usage when writing or speaking.	The Closer You Look
	Standard 5: Demonstrate command of the conventions of standard	Adopt a Tree
	English capitalization, punctuation, and spelling when writing.	The Closer You Look
	Standard 6: Write independently, legibly, and routinely for a variety of	Adopt a Tree
	tasks, purposes, and audiences over short and extended time frames.	The Closer You Look

14	Standards	PLT Activities
NICAT	Standard 1: Interact with others to explore ideas and concepts,	Backyard Safari
\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	communicate meaning, and develop logical interpretations	Have Seeds Will Travel
₹ <u>ō</u>	through collaborative conversations; build upon the ideas of others	Peppermint Beetle
MMUNOI	to clearly express one's own views while respecting diverse	Signs of Fall (A)
00	perspectives.	Trees as Habitats
0		We all Need Trees

	Tree Cookies (V) Web of Life
Standard 2: Articulate ideas, claims, and perspectives in a logical sequence using information, findings, and credible evidence from sources.	Did You Notice Tree Cookies (V) Web of Life
Standard 3: Communicate information through strategic use of multiple modalities and multimedia to enrich understanding when presenting ideas and information.	Adopt a Tree Did You Notice Peppermint Beetle(E) The Closer You Look Web of Life
Standard 4: Critique how a speaker addresses content and uses craft techniques that stylistically and structurally inform, engage, and impact audience and convey messages. Standard 5: Incorporate craft techniques to engage and impact audience and convey messages.	

(V) Variation K-2

(E) Enrichment

Kindergarten Reverse Correlations – English Language Arts

PLT Activity	ELA Standard
A Tree's Life	K.RL.2, K.RI.2
Adopt a Tree	K.W.2, K.W.4, K.W.5, K.W.6, K.C.3,
Backyard Safari	K.C.1
Did You Notice	K.C.2, K.C.3
Have Seeds Will Travel	K.C.1
Peppermint Beetle	K.C.1, K.C.3
The Closer You Look	K.W.2, K.W.3, K.W.4, K.W.5, K.W.6, K.C.3
Trees as Habitats	K.RI.7, K.C.1
We All Need Trees	K.I.1, K.I.3, K.C.1
Signs of Fall (A)	K.C.1
Tree Cookies (V)	K.C.1, K.C.2
Web of Life	K.RI.5, K.RI.7, K.C.1, K.C.2, K.C.3

Kindergarten Social Studies Standards Correlation to PLT Activities

Standards	PLT Activities
Standard 1: Utilize the college and career skills of a historian to study continuity and change over	
time for one's personal history and one's	
community.	
K.H.1 Identify similarities and differences between oneself and others.	
K.H.2 Examine ways in which individuals change	A Tree's Life
or stay the same over time.	Did You Notice
	Tree Cookies
K.H.3 Identify different forms of evidence used in historical inquiry, such as digital sources, maps, photographs/images, or texts.	

	<u></u>
Standard 2: Utilize the college and career skills of	
a geographer to apply map skills and draw	
conclusions about place in one's personal	
community.	
K.G.1 Identify a map, various map features, and explain the purpose	
of maps.	
K.G.2 Utilize sources of geographic information (e.g., digital sources, maps, or photographs/images) to define and identify cultural and/or natural features.	
K.G.3 Describe and compare the cultural and	Adopt a Tree
natural environment around one's home and	
school by constructing a visual representation.	
Standard 3: Utilize the college and career skills of	
an economist to understand how economic	
decisions affect one's personal community.	
K.E.1 Identify and compare wants and needs.	
K.E.2 Explain how wants and needs change over time.	
K.E.3 Explain why people have jobs and describe	My Green Future
the economic benefits for self and community.	,
K.E.4 Identify an economic want or need at one's	We All Need Trees
school or community level and create a solution.	
Standard 4: Utilize the college and career skills of a political	
scientist to understand and display civic dispositions in one's	
personal community.	
K.CG.1 Identify similarities and differences between people and	
discuss ways to protect and respect all people by practicing civic dispositions.	
K.CG.2 Explain the purpose of rules and laws and discuss	
consequences of breaking them.	
K.CG.3 Establish and practice classroom rules and procedures for	
listening and responding appropriately to others.	
K.CG.4 Collaborate with others to identify a classroom or school	
issue and propose a resolution using civic dispositions.	

Kindergarten Reverse Correlations – Social Studies

PLT Activity	Social Studies Standard
A Tree's Life	K.H.2
Adopt a Tree	K.G.3
Did You Notice	K.H.2
We All Need Trees	K.E.4
My Green Future	K.E.3
Tree Cookies	K.H.2

GRADE ONE STANDARDS

Grade 1 Science Performance Expectations Correlation to PLT Activities

Performance Expectations	PLT Activities	
1-PS4-1. Plan and conduct investigations to	1 ET ACTIVITIES	
provide evidence that vibrating materials can		
make sound and that sound can make materials		
vibrate.		
1-PS4-2. Make observations to support an		
evidence-based claim that objects in darkness can		
be seen only when illuminated by light sources.		
1-PS4-3. Plan and conduct an investigation to		
determine the effect of placing objects made with		
different materials in the path of a beam of light.		
1-PS4-4. Use tools and materials to design and		
build a device that uses light or sound to		
communicate over a distance		
1-LS1-1. Use materials to design a	A Tree's Life	Make Your Own Paper
solution to a human problem by	Bursting Buds	The Closer You Look
mimicking how plants and/or animals	Have Seeds will Travel	We All Need Trees
use their external parts to help them	Here We Grow Again	Tree Factory
survive, grow, and meet their needs.		
1-LS1-2. Obtain information from multiple sources		
to determine patterns in parent and offspring		
behavior that help offspring survive.		
1-LS3-1. Make observations to	A Tree's Life	
support an evidence-based claim that	Adopt a Tree	
most young are like, but not exactly	Did You Notice?	
like, their parents.		
1-ESS1-1. Use observations of the sun, moon, and		
stars to describe patterns that can be predicted		
1-ESS1-2. Make observations at different times of		
year to relate the amount of daylight to the time		
of year.		

Grade 1 Reverse Correlations – Science

PLT Activity	Science Performance Expectations
A Tree's Life	1-LS1-1
	1-LS3-1
Adopt a Tree	1-LS3-1
Bursting Buds	1-LS1-1
Did You Notice?	1-LS3-1
Have Seeds, Will Travel	1-LS1-1

Here We Grow Again	1-LS1-1
Make Your Own Paper	1-LS1-1 (ETS2-B)
The Closer You Look	1-LS1-1
We All Need Trees	1-LS1-1 (ETS2-B)
Tree Factory	1-LS1-1

Grade 1 Mathematics Standards Correlation to PLT Activities

Standards	PLT Activities
1.NSBT.1 Extend the number sequence to: a. count forward by ones to	Backyard Safari
120 starting at any number; b. count by fives and tens to 100, starting at	Birds & Bugs
any number; c. read, write and represent numbers to 100 using concrete	Discover Diversity
models, standard form, and equations in expanded form; d. read and	Every Tree for Itself
write in word form numbers zero through nineteen, and multiples of ten	Have Seeds Will Travel
,	
through ninety.	Tree Cookies
1.NSBT.2 Understand place value through 99 by demonstrating that: a. ten ones can be	
thought of as a bundle (group) called a "ten"; b. the tens digit in a two-digit number represents the number of tens and the ones digit represents the number of ones; c. two-	
digit numbers can be decomposed in a variety of ways (e.g., 52 can be decomposed as 5	
tens and 2 ones or 4 tens and 12 ones, etc.) and record the decomposition as an	
equation.	
1.NSBT.3 Compare two two-digit numbers based on the meanings of the tens and ones	
digits, using the words greater than, equal to, or less than.	
1.NSBT.4 Add through 99 using concrete models, drawings, and strategies based on place	
value to: a. add a two-digit number and a one-digit number, understanding that	
sometimes it is necessary to compose a ten (reg	
1.NSBT.5 Determine the number that is 10 more or 10 less than a given number through	
99 and explain the reasoning verbally and with multiple representations, including	
concrete models.	
1.NSBT.6 Subtract a multiple of 10 from a larger multiple of 10, both in the range 10 to	
90, using concrete models, drawings, and strategies based on place value.	
1.ATO.1 Solve real-world/story problems using addition (as a joining action and as a partpart-whole action) and subtraction (as a separation action, finding parts of the whole,	
and as a comparison) through 20 with unknowns in all positions.	
1.ATO.2 Solve real-world/story problems that include three whole number addends	
whose sum is less than or equal to 20.	
1.ATO.3 Apply Commutative and Associative Properties of Addition to find the sum	
(through 20) of two or three addends.	
1.ATO.4 Understand subtraction as an unknown addend problem.	
1.ATO.5 Recognize how counting relates to addition and subtraction	Backyard Safari
	Birds & Bugs
	Have Seeds Will Travel
1.ATO.6 Demonstrate: a. addition and subtraction through 20; b. fluency with addition	
and related subtraction facts through 10.	
1.ATO.7 Understand the meaning of the equal sign as a relationship between two	
quantities (sameness) and determine if equations involving addition and subtraction are	
true	
1.ATO.8 Determine the missing number in addition and subtraction equations within 20.	

1.ATO.9 Create, extend and explain using pictures and words for: a. repeating patterns	
(e.g., AB, AAB, ABB, and ABC type patterns); b. growing patterns (between 2 and 4	
terms/figures).	
1.G.1 Distinguish between a two-dimensional shape's defining (e.g., number of sides) and	
non-defining attributes (e.g., color).	
1.G.2 Combine two-dimensional shapes (i.e., square, rectangle, triangle, hexagon,	
rhombus, and trapezoid) or three-dimensional shapes (i.e., cube, rectangular prism, cone,	
and cylinder) in more than one way to form a composite shape.	
1.G.3 Partition two-dimensional shapes (i.e., square, rectangle, circle) into two or four equal parts.	
1.G.4 Identify and name two-dimensional shapes (i.e., square, rectangle, triangle,	
hexagon, rhombus, trapezoid, and circle).	
1.MDA.1 Order three objects by length using indirect comparison.	Bursting Buds
1.MDA.2 Use nonstandard physical models to show the length of an	Adopt a Tree
object as the number of same size units of length with no gaps or	Here We Grow Again
overlaps.	
1.MDA.3 Use analog and digital clocks to tell and record time to the hour and half hour.	
1.MDA.4 Collect, organize, and represent data with up to 3 categories	Birds & Bugs
using object graphs, picture graphs, t-charts and tallies.	Bursting Buds
	Discover Diversity
	Every Tree for Itself
	Here We Grow Again
	Have Seeds Will Travel
1.MDA.5 Draw conclusions from given object graphs, picture graphs, t-	Birds & Bugs
charts, tallies, and bar graphs.	Bursting Buds
Grants, tames, and bar graphs.	_
	Every Tree for Itself
	Discover Diversity
	Have Seeds Will Travel
1.MDA.6 Identify a penny, nickel, dime and quarter and write the coin values using a \not	
symbol.	

Grade 1 Reverse Correlations – Mathematics

PLT Activity	Mathematics Standards
Adopt a Tree	1.MDA.2
Backyard Safari	1.NSBT.1, 1.ATO.5
Birds & Bugs	1.NSBT.1, 1.ATO.5, 1.MDA.4, 1.MDA.5,
Bursting Buds	1.MDA.1, 1.MDA.4, 1.MDA.5
Have Seeds Will Travel	1.NSBT.1, 1.ATO.5, 1.MDA.4, 1.MDA.5
Here We Grow Again	1.MDA.2, 1.MDA.4
Discover Diversity	1.NSBT.1, 1.MDA.4, 1.MDA.5
Every Tree for Itself	1.NSBT.1, 1.MDA.4, 1.MDA.5
Tree Cookies	1.NSBT.1

Grade 1 ELA Standards Correlation to PLT Activities

	Standards	PLT Activities
	Standard 1: Formulate relevant, self-generated questions based on interests and/or needs that can be investigated.	We all Need Trees
E.	Standard 2: Transact with texts to formulate questions, propose explanations, and consider alternative views and multiple perspectives.	
INQUIRY	Standard 3: Construct knowledge, applying disciplinary concepts and tools, to build deeper understanding of the world through exploration, collaboration, and analysis.	We all Need Trees
	Standard 4: Synthesize integrated information to share learning and/or take action.	
	Standard 5: Reflect throughout the inquiry process to assess metacognition, broaden understanding, and guide actions, both individually and collaboratively.	

	Standards	PLT Activities
	Standard 1: Demonstrate understanding of the organization and basic features of print.	
	Standard 2: Demonstrate understanding of spoken words, syllables, and sounds.	A Tree's Life
	Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
	Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
LITERACY TEXT	Standard 5: Determine meaning and develop logical interpretations by making predictions, inferring, drawing conclusions, analyzing, synthesizing, providing evidence, and investigating multiple interpretations.	
	Standard 6: Summarize key details and ideas to support analysis of thematic development.	
	Standard 7: Analyze the relationship among ideas, themes, or topics in multiple media, formats, and in visual, auditory, and kinesthetic modalities.	
	Standard 8: Analyze characters, settings, events, and ideas as they develop and interact within a particular context.	
	Standard 9: Interpret and analyze the author's use of words, phrases, and conventions, and how their relationships shape meaning and tone in print and multimedia texts.	
	Standard 10: Apply a range of strategies to determine and deepen the meaning of known, unknown, and multiple-meaning words, phrases, and jargon; acquire and use general academic and domain-specific vocabulary.	
	Standard 11: Analyze and provide evidence of how the author's choice of point of view, perspective, and purpose shape content, meaning, and style.	
	Standard 12: Analyze and critique how the author uses structures in print and multimedia texts to shape meaning and impact the reader.	
	Standard 13: Read independently and comprehend a variety of texts for the purposes of reading for enjoyment, acquiring new learning, and building stamina; reflect on and	
	respond to increasingly complex text over time.	

7	Standards	PLT Activities
ONAL	Standard 1: Demonstrate understanding of the organization and basic features of print.	
ᆝ온	Standard 2: Demonstrate understanding of spoken words, syllables, and	A Tree's Life
E Z	sounds.	
RM	Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
	Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
IN F	Standard 5: Determine meaning and develop logical interpretations by	Web of Life
=	making predictions, inferring, drawing conclusions, analyzing,	

synthesizing, providing evidence and investigating multiple	
interpretations.	
Standard 6: Summarize key details and ideas to support analysis of central ideas.	
Standard 7: Research events, topics, ideas, or concepts through multiple	Trees as Habitats
media, formats, and in visual, auditory, and kinesthetic modalities.	Web of Life
Standard 8: Interpret and analyze the author's use of words, phrases, text features, conventions, and structures, and how their relationships shape meaning and tone in print and multimedia texts.	
Standard 9: Apply a range of strategies to determine the meaning of known, unknown, and multiple meaning words, phrases, and jargon; acquire and use general academic and domain-specific vocabulary.	
Standard 10: Analyze and provide evidence of how the author's choice of purpose and perspective shapes content, meaning, and style.	
Standard 11: Analyze and critique how the author uses structures in print and multimedia texts to craft informational and argument writing.	
Standard 12: Read independently and comprehend a variety of texts for the purposes of reading for enjoyment, acquiring new learning, and building stamina; reflect on and respond to increasingly complex text over time.	

	Standards	PLT Activities
	Standard 1: Write arguments to support claims with clear reasons and relevant evidence.	
	Standard 2: Write informative/explanatory texts to examine and	Adopt a Tree
	convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content.	The Closer You Look
WRITING	Standard 3: Write narratives to develop real or imagined experiences	The Closer You Look
Ē	or events using effective techniques, well-chosen details, and well	
₹	structured event sequences.	
>	Standard 4: Demonstrate command of the conventions of standard	Adopt a Tree
	English grammar and usage when writing or speaking.	The Closer You Look
	Standard 5: Demonstrate command of the conventions of standard	Adopt a Tree
	English capitalization, punctuation, and spelling when writing.	The Closer You Look
	Standard 6: Write independently, legibly, and routinely for a variety of	Adopt a Tree
	tasks, purposes, and audiences over short and extended time frames.	The Closer You Look

	Standards	PLT Activities
	Standard 1: Interact with others to explore ideas and concepts,	Backyard Safari
	communicate meaning, and develop logical interpretations	Have Seeds Will Travel
Z	through collaborative conversations; build upon the ideas of others	Peppermint Beetle
2	to clearly express one's own views while respecting diverse	Signs of Fall (A)
ΑT	perspectives.	Trees as Habitats
COMMUNICATION		Tree Cookies
		Web of Life
₹		We all Need Trees
Ī	Standard 2: Articulate ideas, claims, and perspectives in a logical	Did You Notice
00	sequence using information, findings, and credible evidence from	Tree Cookies
	sources.	Web of Life
	Standard 3: Communicate information through strategic use of	Adopt a Tree
	multiple modalities and multimedia to enrich understanding when	Did You Notice
	presenting ideas and information.	Peppermint Beetle(E)

	The Closer You Look Web of Life
Standard 4: Critique how a speaker addresses content and uses craft techniques that	
stylistically and structurally inform, engage, and impact audience and convey messages.	
Standard 5: Incorporate craft techniques to engage and impact audience and convey	
messages.	ļ

Grade 1 Reverse Correlations – English Language Arts

PLT Activity	ELA Standard	
A Tree's Life	1.RL.2, 1.RI.2	
Adopt a Tree	1.W.2, 1.W.4, 1.W.5, 1.W.6, 1.C.3,	
Backyard Safari	1.C.1	
Did You Notice	1.C.2, 1.C.3	
Have Seeds Will Travel	1.C.1	
Peppermint Beetle	1.C.1, 1.C.3	
The Closer You Look	1.W.2, 1.W.3, 1.W.4, 1.W.5, 1.W.6, 1.C.3	
Trees as Habitats	1.RI.7, 1.C.1	
We All Need Trees	1.l.1, 1.l.3, 1.C.1	
Signs of Fall	1.C.1	
Tree Cookies	1.C.1, 1.C.2	
Web of Life	1.RI.5, 1.RI.7, 1.C.1, 1.C.2, 1.C.3	

Grade 1 Social Studies Standards Correlation to PLT Activities

Standards	PLT Activities
Standard 1: Utilize the college and career skills of	
a historian to study continuity and change over	
time in South Carolina.	
1.H.1 Identify similarities and differences between one's community and other South Carolina communities over time.	
1.H.2 Analyze a current event in South Carolina	We All Need Trees
and make predictions about possible outcomes.	
1.H.3 Evaluate different sources of evidence used in historical inquiry, such as art, artifacts, digital sources, graphs, maps, oral histories, photographs/images, and texts.	
Standard 2: Utilize the college and career skills of a	
geographer to apply map skills and draw conclusions about	
places in South Carolina and South Carolina's place in the	
surrounding region.	
1.G.1 Identify various types of maps, map features, and the purpose of maps.	
1.G.2 Identify and describe the geographic location of South Carolina	
in relation to the rest of the United States through the use of various	
maps and geographic tools	
1.G.3 Identify and differentiate between rural, suburban, and urban	
areas within South Carolina.	
1.G.4 Describe and compare various landforms within South	
Carolina through the use of primary and secondary sources.	

Standard 3: Utilize the college and career skills of	
an economist to understand how economic	
decisions affect South Carolinians.	
1.E.1 Compare goods and services in the school, community, and state.	
1.E.2 Explain how goods and services change over time.	
1.E.3 Research and describe how goods and services differ in rural, suburban, and urban areas in South Carolina.	
1.E.4 Identify an economic want or need at the	We All Need Trees
local or state level and create a solution in the	My Green Future
form of a good or a service.	
Standard 4: Utilize the college and career skills of a political	
scientist to understand and display civic dispositions about	
contemporary South Carolina.	
1.CG.1 Demonstrate how civic dispositions encourage citizens with	
diverse beliefs and backgrounds to work together for a common	
goal.	
1.CG.2 Describe the basic purpose, structure, and functions of South	
Carolina's government at both the local and state level.	
1.CG.3 Demonstrate ways to display active and responsible	
citizenship in local and state government.	
1.CG.4 Collaborate with others to identify, resolve, and	
communicate resolutions on a local or state issue.	

Grade 1 Reverse Correlations – Social Studies

PLT Activity	Social Studies Standard	
We All Need Trees	1.H.2, 1.E.4	
My Green Future	1.E.4	

GRADE TWO STANDARDS

Grade 2 Science Performance Expectations Correlation to PLT Activities

Performance Expectations	PLT Activities	
2-PS1-1. Plan and conduct an investigation to describe	1 ET Activities	
and classify different kinds of materials by their		
observable properties.		
2-PS1-2. Analyze data obtained from tests to determine		
which materials have the best properties for an intended		
purpose.		
2-PS1-3. Make observations to construct an evidence-		
based account of how an object made of a small set of		
pieces can be disassembled and made into a new object.		
2-PS1-4. Construct an argument with evidence that some		
changes caused by heating or cooling can be reversed and some cannot.		
2-LS2-1. Plan and conduct an investigation	Here We Grow Again*	Tree Factory
to determine what plants need to grow.	Tree Cookies	Every Tree for Itself
·		Every free for resem
2-LS2-2. Develop a simple model that	Have Seeds Will Travel*	
mimics the function of an animal in		
dispersing seeds or pollinating plants.		
2-LS4-1. Make observations of plants and	Backyard Safari*	Discover Diversity
animals to compare patterns of diversity	Birds and bugs	
within different habitats.	Trees as Habitats	
2-ESS1-1. Use information from several sources to provide		
evidence that Earth events can occur rapidly or slowly.		
2-ESS2-1. Compare multiple solutions designed to slow or		
prevent wind or water from changing the shape of the		
land.		
2-ESS2-2. Develop a model to represent the shapes and kinds of land and bodies of water in an area		
2-ESS2-3. Obtain information to identify where water is		
found on Earth and that it can be solid or liquid.		
2-ESS3-1. Design solutions to address	Make Your Own Paper	
human impacts on natural resources in the	We All Need Trees	
local environment. (ETS2.B)		
· · ·		

^{*} Fully addresses the Performance Expectation

Grade 2 Reverse Correlations – Science

PLT Activity	Science Performance Expectations	
Backyard Safari*	2-LS4-1	
Birds and Bugs	2-LS4-1	

Have Seeds, Will Travel*	2-LS2-2
Here We Grow Again*	2-LS2-1
Make Your Own Paper	2-ESS3-1 (ETS2.B)
Trees as Habitats	2-LS4-1
We All Need Trees	2-ESS3-1 (ETS2.B)
Discover Diversity	2-LS4-1
Tree Cookies	2-LS2-1
Tree Factory	2-LS2-1
Every Tree for Itself	2-LS2-1

^{*} Fully addresses the Performance Expectation

Grade 2 Mathematics Standards Correlation to PLT Activities

Standards	PLT Activities
2.NSBT.1 Understand place value through 999 by demonstrating that: a. 100 can be thought of as a bundle (group) of 10 tens called a "hundred"; b. the hundreds digit in a three-digit number represents the number of hundreds, the tens digit represents the number of tens, and the ones digit represents the number of ones; c. three-digit numbers can be decomposed in multiple ways (e.g., 524 can be decomposed as 5 hundreds, 2 tens and 4 ones or 4 hundreds, 12 tens, and 4 ones, etc.).	
2.NSBT.2 Count by tens and hundreds to 1,000 starting with any number.	
2.NSBT.3 Read, write and represent numbers through 999 using concrete models, standard form, and equations in expanded form.	
2.NSBT.4 Compare two numbers with up to three digits using words and symbols (i.e., $>$, $=$, or $<$).	
NSBT.5 Add and subtract fluently through 99 using knowledge of place value and properties of operations.	
NSBT.6 Add up to four two-digit numbers using strategies based on knowledge of place value and properties of operations.	
NSBT.7 Add and subtract through 999 using concrete models, drawings, and symbols which convey strategies connected to place value understanding.	
NSBT.8 Determine the number that is 10 or 100 more or less than a given number through 1,000 and explain the reasoning verbally and in writing.	
2.ATO.1 Solve one- and two-step real-world/story problems using	Backyard Safari
addition (as a joining action and as a part-part-whole action) and	Birds and Bugs
subtraction (as a separation action, finding parts of the whole, and	Have Seeds Will Travel
as a comparison) through 99 with unknowns in all positions.	
2.ATO.2 Demonstrate fluency with addition and related subtraction facts through 20.	
2.ATO.3 Determine whether a number through 20 is odd or even using pairings of objects, counting by twos, or finding two equal addends to represent the number	
2.ATO.4 Use repeated addition to find the total number of objects arranged in a rectangular array with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.	
2.G.1 Identify triangles, quadrilaterals, hexagons, and cubes. Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces.	
2.G.2 Partition a rectangle into rows and columns of same-size squares to form an array and count to find the total number of parts	
2.G.3 Partition squares, rectangles and circles into two or four equal parts, and describe the parts using the words halves, fourths, a half of, and a fourth of. Understand that when partitioning a square, rectangle or circle into two or four equal parts, the parts become smaller as the number of parts increases.	

2.MDA.1 Select and use appropriate tools (e.g., rulers, yardsticks, meter sticks, measuring tapes) to measure the length of an object.	Adopt a Tree Bursting buds Discover Diversity Here We Grow Again
2.MDA.2 Measure the same object or distance using a standard unit of one length and then a standard unit of a different length and explain verbally and in writing how and why the measurements differ. 2.MDA.3 Estimate and measure length/distance in customary units (i.e., inch, foot, yard) and metric units (i.e., centimeter, meter).	Adopt a Tree Bursting Buds Discover Diversity Here We Grow Again Adopt a Tree Bursting Buds Discover Diversity
2.MDA.4 Measure to determine how much longer one object is than another, using standard length units.	Here We Grow Again Adopt a Tree Bursting Buds Discover Diversity Here We Grow Again
2.MDA.5 Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2,, and represent whole-number sums and differences through 99 on a number line diagram. 2.MDA.6 Use analog and digital clocks to tell and record time to the nearest five-minute interval using a.m. and p.m. 2.MDA.7 Solve real-world/story problems involving dollar bills using the \$ symbol or involving	
quarters, dimes, nickels, and pennies using the ¢ symbol. 2.MDA.8 Generate data by measuring objects in whole unit lengths and organize the data in a line plot using a horizontal scale marked in whole number units.	Adopt a Tree Birds and Bugs Bursting Buds Discover Diversity Every Tree for Itself Here We Grow Again
2.MDA.9 Collect, organize, and represent data with up to four categories using picture graphs and bar graphs with a single-unit scale.	Birds and Bugs Discover Diversity Every Tree for Itself Have Seeds Will Travel Here We Grow Again
2.MDA.10 Draw conclusions from t-charts, object graphs, picture graphs, and bar graphs.	Birds and Bugs Discover Diversity Every Tree for Itself Have Seeds Will Travel Here We Grow Again

Grade 2 Reverse Correlations – Mathematics

PLT Activity Mathematics Standards	
Adopt a Tree	2.MDA.1, 2.MDA.2, 2.MDA.3, 2.MDA.4, 2.MDA.8
Backyard Safari	2.ATO.1
Birds & Bugs	2.ATO.1, 2.MDA.8, 2.MDA.9, 2.MDA.10
Bursting Buds	2.MDA.1, 2.MDA.2, 2.MDA.3, 2.MDA.4, 2.MDA.8,

Have Seeds Will Travel	2.ATO.1, 2.MDA.9, 2.MDA.10
Here We Grown Again	2.MDA.1, 2.MDA.2, 2.MDA.3, 2.MDA.4, 2.MDA.8, 2.MDA.9, 2.MDA.10
Discover Diversity	2.MDA.1, 2.MDA.2, 2.MDA.3, 2.MDA.4, 2.MDA.8, 2.MDA.9, 2.MDA.10
Every Tree for Itself	2.MDA.8, 2.MDA.9, 2.MDS.10

Grade 2 ELA Standards Correlation to PLT Activities

	Standards	PLT Activities
	Standard 1: Formulate relevant, self-generated questions based on	We all Need Trees
	interests and/or needs that can be investigated.	
IIRY	Standard 2: Transact with texts to formulate questions, propose explanations, and consider alternative views and multiple perspectives.	
INQUI	Standard 3: Construct knowledge, applying disciplinary concepts and tools, to build deeper understanding of the world through	We all Need Trees
	exploration, collaboration, and analysis.	
	Standard 4: Synthesize integrated information to share learning and/or take action.	
	Standard 5: Reflect throughout the inquiry process to assess metacognition, broaden understanding, and guide actions, both individually and collaboratively.	

	Standards	PLT Activities
	Standard 1: Demonstrate understanding of the organization and basic features of print.	
	Standard 2: Demonstrate understanding of spoken words,	A Tree's Life
	syllables, and sounds.	
	Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
₽	Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
READING: LITERARY TEXT	Standard 5: Determine meaning and develop logical interpretations by making predictions, inferring, drawing conclusions, analyzing, synthesizing, providing evidence, and investigating multiple interpretations.	
RAF	Standard 6: Summarize key details and ideas to support analysis of thematic development.	
ITE	Standard 7: Analyze the relationship among ideas, themes, or topics in multiple media, formats, and in visual, auditory, and kinesthetic modalities.	
-	Standard 8: Analyze characters, settings, events, and ideas as	Trees for Many Reasons
5	they develop and interact within a particular context.	
	Standard 9: Interpret and analyze the author's use of words, phrases, and conventions, and how their relationships shape meaning and tone in print and multimedia texts.	
EA	Standard 10: Apply a range of strategies to determine and deepen the meaning of known,	
8	unknown, and multiple-meaning words, phrases, and jargon; acquire and use general	
	academic and domain-specific vocabulary. Standard 11: Analyze and provide evidence of how the author's choice of point of view,	
	perspective, and purpose shape content, meaning, and style.	
	Standard 12: Analyze and critique how the author uses structures in print and multimedia	
	texts to shape meaning and impact the reader.	
	Standard 13: Read independently and comprehend a variety of texts for the purposes of	
	reading for enjoyment, acquiring new learning, and building stamina; reflect on and	
	respond to increasingly complex text over time.	

RE		Standards	PLT Activities
•	. 4	Standard 1: Demonstrate understanding of the organization and basic features of print.	

	Standard 2: Demonstrate understanding of spoken words, syllables, and sounds.	A Tree's Life
ŀ	Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
•	Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
	Standard 5: Determine meaning and develop logical interpretations by making predictions, inferring, drawing conclusions, analyzing, synthesizing, providing evidence and investigating multiple interpretations.	Web of Life
	Standard 6: Summarize key details and ideas to support analysis of central ideas.	
	Standard 7: Research events, topics, ideas, or concepts through multiple	Trees as Habitats
	media, formats, and in visual, auditory, and kinesthetic modalities.	Web of Life
	Standard 8: Interpret and analyze the author's use of words, phrases, text features, conventions, and structures, and how their relationships shape meaning and tone in print and multimedia texts.	
	Standard 9: Apply a range of strategies to determine the meaning of known, unknown, and multiple meaning words, phrases, and jargon; acquire and use general academic and domain-specific vocabulary.	
	Standard 10: Analyze and provide evidence of how the author's choice of purpose and perspective shapes content, meaning, and style.	
	Standard 11: Analyze and critique how the author uses structures in print and multimedia texts to craft informational and argument writing.	
	Standard 12: Read independently and comprehend a variety of texts for the purposes of reading for enjoyment, acquiring new learning, and building stamina; reflect on and respond to increasingly complex text over time.	

	Standards	PLT Activities
	Standard 1: Write arguments to support claims with clear reasons and relevant evidence.	
	Standard 2: Write informative/explanatory texts to examine and	Adopt a Tree
	convey complex ideas and information clearly and accurately through	The Closer You Look
	the effective selection, organization, and analysis of content.	
WRITING	Standard 3: Write narratives to develop real or imagined experiences	The Closer You Look
=	or events using effective techniques, well-chosen details, and well-	
M.	structured event sequences.	
>	Standard 4: Demonstrate command of the conventions of standard	Adopt a Tree
	English grammar and usage when writing or speaking.	The Closer You Look
	Standard 5: Demonstrate command of the conventions of standard	Adopt a Tree
	English capitalization, punctuation, and spelling when writing.	The Closer You Look
	Standard 6: Write independently, legibly, and routinely for a variety of	Adopt a Tree
	tasks, purposes, and audiences over short and extended time frames.	The Closer You Look

Z	Standards	PLT Activities
COMMUNICATION	Standard 1: Interact with others to explore ideas and concepts,	Backyard Safari
AT	communicate meaning, and develop logical interpretations	Have Seeds Will Travel
2	through collaborative conversations; build upon the ideas of others	Peppermint Beetle
	to clearly express one's own views while respecting diverse	Signs of Fall (A)
I₹	perspectives.	Trees as Habitats
Ī		Tree Cookies (V)
Ö		Web of Life
		We all Need Trees

Standard 2: Articulate ideas, claims, and perspectives in a logical	Did You Notice
sequence using information, findings, and credible evidence from	Tree Cookies (V)
sources.	Web of Life
Standard 3: Communicate information through strategic use of	Adopt a Tree
multiple modalities and multimedia to enrich understanding when	Did You Notice
presenting ideas and information.	Peppermint Beetle(E)
	The Closer You Look
	Web of Life
Standard 4: Critique how a speaker addresses content and uses craft techniques that stylistically and structurally inform, engage, and impact audience and convey messages.	
Standard 5: Incorporate craft techniques to engage and impact audience and convey messages.	

(V) Variation K-2 (E) Enrichment

Grade 2 Reverse Correlations – English Language Arts

PLT Activity	ELA Standard
A Tree's Life	2.RL.2, 2.RI.2
Adopt a Tree	2.W.2, 2.W.4, 2.W.5, 2.W.6, 2.C.3,
Backyard Safari	2.C.1
Did You Notice	2.C.2, 2.C.3
Have Seeds Will Travel	2.C.1
Peppermint Beetle	2.C.1, 2.C.3
The Closer You Look	2.W.2, 2.W.3, 2.W.4, 2.W.5, 2.W.6, 2.C.3
Trees as Habitats	2.RI.7, 2.C.1
We All Need Trees	2.I.1, 2.I.3, 2.C.1
Signs of Fall (A)	2.C.1
Tree Cookies (V)	2.C.1, 2.C.2
Trees for Many Reasons	2.RL.8
Web of Life	2.RI.5, 2.RI.7, 2.C.1, 2.C.2, 2.C.3

Grade 2 Social Studies Standards Correlation to PLT Activities

Standards	PLT Activities
Standard 1: Utilize the college and career skills of a historian to study the continuity and changes over time in the United States.	
2.H.1 Identify and compare significant historical events, moments, and symbols in U.S. history.	
2.H.2 Examine current or past events from U.S. history, and discuss the possible causes and effects.	
2.H.3 Analyze patterns of continuities and changes within U.S. history through the use of a variety of sources, including graphic organizers, maps, oral histories, photographs/images, texts, and timelines.	
2.H.4 Evaluate different forms of evidence used in historical inquiry and determine their validity.	

Standard 2: Utilize the college and career skills of	
a geographer to apply map skills and draw	
conclusions about the United States.	
2.G.1 Identify the geographic location of the U. S. in relation to the	
rest of the world.	
2.G.2 Describe and compare various landforms over time within the	
U.S. through the use of primary and secondary sources	
2.G.2 Describe and compare various landforms over time within the	
U.S. through the use of primary and secondary sources	
2.G.3 Explain how the distribution of human	We All Need Trees
features, physical features, and natural resources	
within the US changes over time and impacts	
economic activity.	
Standard 3: Utilize the college and career skills of an economist to	
understand how economic decisions affect citizenship within the	
United States.	
2.E.1 Examine the purpose of currency and how income, savings,	
and spending are parts of a budget.	
2.E.2 Explain how budgets change as wants and needs or the	
availability of goods & services change.	
2.E.3 Create a simple budget, and articulate the priorities using	
economic terms such as expenses, income, and savings.	
2.E.4 Interpret data to show how geographic location and available	
resources impact economic decision-making.	
Standard 4: Responsible citizenship requires individuals of diverse cultural backgrounds to employ dispositions that promote strong	
relationships to develop solutions to communal problems.	
2.CG.1 Identify cultural and ethnic groups in the U. S., explore their	
characteristics, and communicate how civic dispositions build	
relationships between groups in a diverse society.	
2.CG.2 Use primary and secondary sources to research a national	
figure who demonstrated civic dispositions.	
2.CG.3 Analyze how rights are granted to U. S. citizens through the	
founding documents.	
2.CG.4 Use evidence to propose and communicate a resolution to a	
national issue.	

Grade 2 Reverse Correlations – Social Studies

PLT Activity	Social Studies Standard
We All Need Trees	2.G.3

GRADE THREE STANDARDS

Grade 3 Science Performance Expectations Correlation to PLT Activities

Performance Expectations	PLT Activities	
3-PS2-1. Plan and conduct an investigation to provide		
evidence of the effects of balanced and unbalanced forces		
on the motion of an object.		
3-PS2-2. Make observations and measurements of an		
object's motion to provide evidence that a pattern can be used to predict future motion.		
3-PS2-3. Ask questions to determine cause-and-effect		
relationships of electric interactions and magnetic		
interactions between two objects not in contact with each		
other.		
3-PS2-4. Develop possible solutions to a simple design		
problem by applying scientific ideas about magnets.		
3-LS1-1. Develop and use models to describe	A Tree's Life	
how organisms change in predictable patterns	Bursting Buds (3-5 Variation	on #2)
during their unique and diverse life cycles	Did You Notice?	
3-LS2-1. Construct an argument that some animals form		
groups that help members survive.	A.T / . 1:5:	
3-LS3-1. Analyze and interpret data to provide	A Tree's Life	
evidence that plants and animals have inherited	Tree ID	
traits that vary within a group of similar		
organisms.		
3-LS3-2. Use evidence to support the	Here We Grow Again	Tree Cookies
explanation that traits can be influenced by the	Charting biodiversity	Trees in Trouble
environment.	*Every Tree for Itself	Field, Forest, & Stream
3-LS4-1. Analyze and interpret data from fossils to provide		
evidence of organisms and the environments in which they		
lived long ago. 3-LS4-2. Use evidence to construct an	Dirds and Dugs	
	Birds and Bugs	
explanation for how the variations in traits		
among individuals of the same species may		
provide advantages in surviving and producing		
offspring		
3-LS4-3. Construct an argument with evidence	Backyard Safari	Discover Diversity
that in a particular habitat some organisms can	Trees as Habitats	Field, Forest, & Stream
thrive, struggle to survive, or fail to survive.	Charting Biodiversity	Life on the Edge
	Nothing Succeeds Like Suc	ccession
3-LS4-4. Make a claim about the effectiveness of	Discover Diversity	Improve Your Place
a solution to a problem caused when the	Trees in Trouble	Life on the Edge
environment changes and affects organisms	Water Wonders	Our Federal Forests
living there.	Decisions, Decisions	Plant a Tree
	*Field, Forest, & Stream	Reduce, Reuse, Recycle
	Nothing Succeeds Like Suc	ccession

3-ESS2-1. Represent data in tables and graphical displays of	
typical weather conditions during a particular season to	
identify patterns and make predictions.	
3-ESS2-2. Obtain and combine information to describe	
climate patterns in different regions of the world.	
3-ESS3-1. Make a claim about the effectiveness of a design	
solution that reduces the impacts of a weather related	
hazard.	

^{*} Fully addresses the Performance Expectation

Grade 3 Reverse Correlations – Science

PLT Activity	Science	e Performance Expe	ctation
A Tree's Life	3-LS1-1	3-LS3-1	
Backyard Safari	3-LS4-3		
Birds and Bugs	3-LS4-2		
Bursting Buds	3- LS1-1		
(3-5 Variation #2)			
Did You Notice?	3-LS1-1		
Here We Grow Again	3LS3-2		
Trees as Habitats	3-LS4-3		
Charting Biodiversity	3-LS3-2	3-LS4-3	
Discover Diversity	3-LS4-3	3-LS4-4	
*Every Tree for Itself	3-LS3-2		
Tree Cookies	3-LS3-2		
Tree ID	3-LS3-1		
Trees in Trouble	3-LS4-4	3-LS3-2	
Water Wonders	3-LS4-4		
Decisions, Decisions	3-LS4-4		
Field, Forest, and Stream	3-LS3-2	3-LS4-4	3-LS4-3
Improve your Place	3-LS4-4		
Life on the Edge	3-LS4-3	3-LS4-4	
Nothing Succeeds Like Succession	3-LS4-3	3-LS4-4	
Our Federal Forests	3-LS4-4		
Plant a Tree	3-LS4-4		
Reduce, Reuse, Recycle	3-LS4-4		

^{*} Fully addresses the Performance Expectation

Grade 3 Mathematics Standards Correlation to PLT Activities

Standards	PLT Activities
3.NSBT.1 Use place value understanding to round whole numbers to the nearest 10 or 100.	
3.NSBT.2 Add and subtract whole numbers fluently to 1,000 using	Exploration Energy
knowledge of place value and properties of operations	Soil Builders
3.NSBT.3 Multiply one-digit whole numbers by multiples of 10 in the range	Get Outside
10 – 90, using knowledge of place value and properties of operations	
3.NSBT.4 Read and write numbers through 999,999 in standard form and equations in	
expanded form	
3.NSBT.5 Compare and order numbers through 999,999 and represent the comparison using	
the symbols >, =, or	
3.NSF.1 Develop an understanding of fractions (i.e., denominators 2, 3, 4, 6, 8, 10) as	
numbers. a. A fraction 1 b (called a unit fraction) is the quantity formed by one part when a	
whole is partitioned into b equal parts; b. A fraction a b is the quantity formed by a parts of	
size 1 b; c. A fraction is a number that can be represented on a number line based on counts	
of a unit fraction; d. A fraction can be represented using set, area, and linear models.	
3.NSF.2 Explain fraction equivalence (i.e., denominators 2, 3, 4, 6, 8, 10) by demonstrating an	
understanding that: a. two fractions are equal if they are the same size, based on the same whole, or at the same point on a number line; b. fraction equivalence can be represented	
using set, area, and linear models; c. whole numbers can be written as fractions (e.g., 4 = 4 1	
and $1 = 44$); d. fractions with the same numerator or same denominator can be compared	
by reasoning about their size based on the same whole.	
3.NSF.3 Develop an understanding of mixed numbers (i.e., denominators 2, 3, 4, 6, 8, 10) as	
iterations of unit fractions on a number line.	
3.ATO.1 Use concrete objects, drawings and symbols to represent multiplication facts of two	
single-digit whole numbers and explain the relationship between the factors (i.e., $0-10$) and	
the product.	
3.ATO.2 Use concrete objects, drawings and symbols to represent division without	
remainders and explain the relationship among the whole number quotient (i.e., $0-10$),	
divisor (i.e., 0 – 10), and dividend.	
3.ATO.3 Solve real-world problems involving equal groups, area/array, and number line	
models using basic multiplication and related division facts. Represent the problem situation using an equation with a symbol for the unknown.	
3.ATO.4 Determine the unknown whole number in a multiplication or division equation	
relating three whole numbers when the unknown is a missing factor, product, dividend,	
divisor, or quotient.	
3.ATO.5 Apply properties of operations (i.e., Commutative Property of Multiplication,	
Associative Property of Multiplication, Distributive Property) as strategies to multiply and	
divide and explain the reasoning.	
3.ATO.6 Understand division as a missing factor problem	
3.ATO.7 Demonstrate fluency with basic multiplication and related division facts of products	
and dividends through 100.	
3.ATO.8 Solve two-step real-world problems using addition, subtraction, multiplication and	
division of whole numbers and having whole number answers. Represent these problems using equations with a letter for the unknown quantity.	
3.ATO.9 Identify a rule for an arithmetic pattern (e.g., patterns in the addition table or	
multiplication table).	
3.G.1 Understand that shapes in different categories (e.g., rhombus, rectangle, square, and	
other 4-sided shapes) may share attributes (e.g., 4-sided figures) and the shared attributes	
can define a larger category (e.g., quadrilateral). Recognize rhombuses, rectangles, and	
squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not	
belong to any of these subcategories.	

3.G.2 Partition two-dimensional shapes into 2, 3, 4, 6, or 8 parts with equal areas and express the area of each part using the same unit fraction. Recognize that equal parts of identical wholes need not have the same shape.	
3.G.3 Use a right angle as a benchmark to identify and sketch acute and obtuse angles.	
3.G.4 Identify a three-dimensional shape (i.e., right rectangular prism, right triangular prism, pyramid) based on a given two-dimensional net and explain the relationship between the shape and the net.	
3.MDA.1 Use analog and digital clocks to determine and record time to the nearest minute, using a.m. and p.m.; measure time intervals in minutes; and solve problems involving addition and subtraction of time intervals within 60 minutes.	
3.MDA.2 Estimate and measure liquid volumes (capacity) in customary units (i.e., c., pt., qt., gal.) and metric units (i.e., mL, L) to the nearest whole unit.	
3.MDA.3 Collect, organize, classify, and interpret data with multiple categories and draw a scaled picture graph and a scaled bar graph to represent the data.	Adopt a Tree Birds & Bugs Have Seeds Will Travel Here We Grow Again Trees as Habitats Every Tree for Itself Get Outside Soil Builders Field, Forest, & Stream Reduce, Reuse, Recycle Our Federal Forests
3.MDA.4 Generate data by measuring length to the nearest inch, half-inch and quarter-inch and organize the data in a line plot using a horizontal scale marked off in appropriate units	Bursting Buds Here We Grow Again Soil Builders Tree Cookies Trees in Trouble Nature's Skyscrapers
3.MDA.5 Understand the concept of area measurement. a. Recognize area as an attribute of plane figures; b. Measure area by building arrays and counting standard unit squares; c. Determine the area of a rectilinear polygon and relate to multiplication and addition.	Here We Grow Again
3.MDA.6 Solve real-world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.	Discover Diversity

Grade 3 Reverse Correlations – Mathematics

PLT Activity	Mathematics Standard
Adopt a Tree	3MDA.3
Bird & Bugs	3.MDA.3
Bursting Buds	3.MDA.4
Have Seeds Will Travel	3.MDA.3
Here We Grow Again	3.MDA.3, 3.MDA.4, 3.MDA.5

Trees as Habitats	3.MDA.3
Discover Diversity	3.MDA.6
Every Tree for Itself	3.MDA.3
Get Outside	3.NSBT.3, 3.MDA.3
Soil Builders	3.NSBT.2, 3.MDA.3, 3.MDA.4
Tree Cookies	3.MDA.4
Trees in Trouble	3.MDA.4
Exploration Energy	3.NSBT.2
Field, Forest, & Stream	3.MDA.3
Nature's Skyscrapers	3.MDA.4
Reduce, Reuse, Recycle	3.MDA.3
Our Federal Forests	3.MDA.3

Grade 3 ELA Standards Correlation to PLT Activities

	Standards	PLT Activities
	Standard 1: Formulate relevant, self-generated questions based	A Tree's Life (V)
	on interests and/or needs that can be investigated.	Adopt a Tree (V)
		Did You Notice (V)
		Every Drop Counts
		Fallen Log
		Tree Cookies
		Web of Life
	Standard 2: Transact with texts to formulate questions, propose	Trees for Many Reasons
	explanations, and consider alternative views and multiple	
INQUIRY	perspectives.	
5	Standard 3: Construct knowledge, applying disciplinary concepts	A Tree's Life (V)
Q	and tools, to build deeper understanding of the world through	Adopt a Tree (V)
Z	exploration, collaboration, and analysis.	Did You Notice (V)
		Fallen Log
		Tree Cookies
		Energy Exploration (V)
	Standard 4: Synthesize integrated information to share learning	A Tree's Life (V)
	and/or take action.	Backyard Safari (V)
		Did You Notice (V)
		Every Drop Counts
		Fallen Log
		Energy Exploration (V)
	Standard 5: Reflect throughout the inquiry process to assess metacognition, broaden understanding, and guide actions, both individually and collaboratively.	

ن ۵	Standards	PLT Activities
EA C	Standard 1: Demonstrate understanding of the organization and basic features of print.	
~ =	Standard 2: Demonstrate understanding of spoken words, syllables, and sounds.	

Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
Standard 5: Determine meaning and develop logical interpretations by making predictions, inferring, drawing conclusions, analyzing, synthesizing, providing evidence, and investigating multiple interpretations.	
Standard 6: Summarize key details and ideas to support analysis of thematic development.	Trees for Many Reasons
Standard 7: Analyze the relationship among ideas, themes, or topics in multiple media, formats, and in visual, auditory, and kinesthetic modalities.	
Standard 8: Analyze characters, settings, events, and ideas as they develop and interact within a particular context.	Trees for Many Reasons
Standard 9: Interpret and analyze the author's use of words, phrases, and conventions, and how their relationships shape meaning and tone in print and multimedia texts.	Trees for Many Reasons
Standard 10: Apply a range of strategies to determine and deepen the meaning of known, unknown, and multiple-meaning words, phrases, and jargon; acquire and use general academic and domain-specific vocabulary.	
Standard 11: Analyze and provide evidence of how the author's choice of point of view, perspective, and purpose shape content, meaning, and style.	Trees for Many Reasons
Standard 12: Analyze and critique how the author uses structures in print and multimedia texts to shape meaning and impact the reader.	Trees for Many Reasons
Standard 13: Read independently and comprehend a variety of texts for the purposes of reading for enjoyment, acquiring new learning, and building stamina; reflect on and respond to increasingly complex text over time.	

	Standards	PLT Activities
	Standard 1: Demonstrate understanding of the organization and basic features of print.	
	Standard 2: Demonstrate understanding of spoken words, syllables, and sounds.	
ЕХТ	Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
L	Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
A	Standard 5: Determine meaning and develop logical	Nothing Succeeds like
O.	interpretations by making predictions, inferring, drawing	Succession (V)
ЛАТ	conclusions, analyzing, synthesizing, providing evidence and investigating multiple interpretations.	
R	Standard 6: Summarize key details and ideas to support	Did You Notice (V)
INFORMATIONAL TEX	analysis of central ideas.	Tree Cookies
	Standard 7: Research events, topics, ideas, or concepts through	A Tree's Life (V)
READING:	multiple media, formats, and in visual, auditory, and	Backyard Safari (V)
D	kinesthetic modalities.	Bursting Buds (V)
Ϋ́		Did You Notice (V)
R		Peppermint Beetle (V)
		Charting Biodiversity
		Tree Cookies
		Web of Life

Standard 8: Interpret and analyze the author's use of words, phrases, text features,	
conventions, and structures, and how their relationships shape meaning and tone in	
print and multimedia texts.	
Standard 9: Apply a range of strategies to determine the meaning of known, unknown,	
and multiple meaning words, phrases, and jargon; acquire and use general academic	
and domain-specific vocabulary.	
Standard 10: Analyze and provide evidence of how the author's choice of purpose and	
perspective shapes content, meaning, and style.	
Standard 11: Analyze and critique how the author uses structures in print and	
multimedia texts to craft informational and argument writing.	
Standard 12: Read independently and comprehend a variety of texts for the purposes	
of reading for enjoyment, acquiring new learning, and building stamina; reflect on and	
respond to increasingly complex text over time.	

	Standards	PLT Activities
	Standard 1: Write arguments to support claims with clear reasons and relevant evidence.	
	Standard 2: Write informative/explanatory texts to examine and	A Tree's Life (V)
	convey complex ideas and information clearly and accurately	Bursting Buds (V)
	through the effective selection, organization, and analysis of	Tree Factory
	content.	Tree ID
		Trees in Trouble
		Water Wonders
		Web of Life
	Standard 3: Write narratives to develop real or imagined	A Tree's Life (V)
	experiences or events using effective techniques, well-chosen	Bursting Buds (V)
	details, and well-structured event sequences.	Fallen Log
		Get Outside
		Water Wonders
	Standard 4: Demonstrate command of the conventions of	A Tree's Life (V)
(B	standard English grammar and usage when writing or speaking.	Bursting Buds (V)
		Fallen Log
ΙĒ		Get Outside
WRITING		Tree Factory
>		Tree ID
		Trees in Trouble
		Water Wonders
		Web of Life
	Standard 5: Demonstrate command of the conventions of	A Tree's Life (V)
	standard English capitalization, punctuation, and spelling when	Bursting Buds (V)
	writing.	Fallen Log
		Get Outside
		Tree Factory
		Tree ID
		Trees in Trouble
		Water Wonders
		Web of Life
	Standard 6: Write independently, legibly, and routinely for a	A Tree's Life (V)
	variety of tasks, purposes, and audiences over short and	Bursting Buds (V)
	extended time frames.	Fallen Log
		Get Outside

	Poet Tree
	Tree Factory
	Tree ID
	Trees in Trouble
	Water Wonders
	Web of Life

	Standards	PLT Activities
	Standard 1: Interact with others to explore ideas and concepts,	Backyard Safari (V)
	communicate meaning, and develop logical interpretations	Did You Notice (V)
	through collaborative conversations; build upon the ideas of	Have Seeds Will Travel (V)
	others to clearly express one's own views while respecting	We All Need Trees (V)
	diverse perspectives.	Charting Biodiversity
		Discover Diversity
		Fallen Log
		My Green Future
		Peek at Packaging
		Soil Builders
		Tree Cookies
		Trees for Many Reasons
		Our Federal Forests (V)
_	Standard 2: Articulate ideas, claims, and perspectives in a logical	A Tree's Life (V)
	sequence using information, findings, and credible evidence	Adopt a Tree (V)
COMMUNICATION	from sources.	Backyard Safari (V)
₹		Did You Notice (V)
Ž		Charting Biodiversity
⊇		Discover Diversity
≥		Fallen Log
		Poet Tree
ŭ		Tree Cookies
		Energy Exploration (V)
	Standard 3: Communicate information through strategic use of	A Tree's Life (V)
	multiple modalities and multimedia to enrich understanding	Adopt a Tree (V)
	when presenting ideas and information.	Charting Biodiversity
		Discover Diversity
		Fallen Log
		My Green Future
		Poet Tree
		Soil Builders
		Water Wonders
		Energy Exploration (V)
		Our Federal Forests (V)
	Standard 4: Critique how a speaker addresses content and uses	Poet Tree
	craft techniques that stylistically and structurally inform,	Soil Builders
	engage, and impact audience and convey messages.	

Standard 5: Incorporate craft techniques to engage and impact	Poet Tree
audience and convey messages.	

(V) Variation for 3-5

Grade 3 Reverse Correlations – English Language Arts

PLT Activity	Standard
A Tree's Life (V)	3.I.1, 3.I.3, 3.I.4, 3.RI.7, 3.W.2, 3.W.3, 3.W.4, 3.W.5, 3.W.6, 3.C.2,
	3.C.3
Adopt a Tree (V)	3.l.1, 3.l.3, 3.C.2, 3.C.3
Backyard Safari (V)	3.I.4, 3.RI.7, 3.C.1, 3.C.2
Bursting Buds (V)	3.Rl.7, 3.W.2, 3.W.3, 3.W.4, 3.W.5, 3.W.6
Did You Notice (V)	3.I.1, 3.I.3, 3.I.4, 3.RI.6, 3.RI.7, 3.C.1, 3.C.2,
Peppermint Beetle	3.RI.7
Have Seeds Will Travel (V)	3.C.1
We All Need Trees (V)	3.C.1
Charting Biodiversity	3.Rl.7, 3.C.1, 3.C.2, 3.C.3
Discover Diversity	3.C.1, 3.C.2, 3.C.3
Every Drop Counts	3.1.1, 3.1.4
Fallen Log	3.I.1, 3.I.3, 3.I.4, 3.W.3, 3.W.4, 3.W.5, 3.W.6, 3.C.1, 3.C.2, 3.C.3
Get Outside	3.W.3, 3.W.4, 3.W.5, 3.W.6
My Green Future	3.C.1, 3.C.3
Peek at Packaging	3.C.1
Poet Tree	3.W.6, 3.C.2, 3.C.3, 3.C.4, 3.C.5
Soil Builders	3.C.1, 3.C.3, 3.C.4
Tree Cookies	3.I.1, 3.I.3, 3.RI.6, 3.RI.7, 3.C.1, 3.C.2,
Tree Factory	3.W.2, 3.W.4, 3.W.5, 3.W.6
Trees for Many Reasons	3.I.2, 3.RL.6, 3.RL.8, 3.RL.9, 3.RL.11, 3.RL.12, 3.C.1,
Tree ID	3.W.2, 3.W.4, 3.W.5, 3.W.6
Trees in Trouble	3.W.2, 3.W.4, 3.W.5, 3.W.6
Water Wonders	3.W.2, 3.W.3, 3.W.4, 3.W.5, 3.W.6, 3.C.3
Web of Life	3.I.1, 3.RI.7, 3.W.2, 3.W.4, 3.W.5, 3.W.6
Exploration Energy (V)	3.I.3, 3.I.4, 3.C.2, 3.C.3
Nothing Succeeds Like	3.RI.5
Succession (V)	
Our Federal Forests (V)	3.C.1, 3.C.3

Grade 3 Social Studies Standards Correlation to PLT Activities

Standards	PLT Activities
Standard 1: Use maps and globes to categorize places and regions by their human and physical conditions.	
3.1.1.AG Utilize an alphanumeric grid to locate the continents and oceans.	

3.1.2.AG Locate the world's four hemispheres (i.e., northern, southern, eastern, and western) by using the major components of latitude and longitude (i.e., the Equator, the Prime Meridian, lines of latitude (i.e., parallels), lines of longitude (i.e., meridians), and the International Date	
Line).	
3.1.3.PR Identify the spatial hierarchy of political and physical geographic features.	
Standard 2: Demonstrate an understanding of Earth's physical	
features and ecosystems that affect human activities.	
3.2.1.ER Recognize and explain how physical features are distributed around the world.	
3.2.2.ER Identify and analyze the ways people interact with the physical environment in different regions of the state, the country, and the world.	
3.2.3.ER Identify spatial variations in climates around the world and	The Global Climate
recognize the relationship between climate and human activities.	
Standard 3: Demonstrate an understanding of the relationship between Earth's environmental hazards and human activities.	
3.3.1.ER Identify the range of natural hazards facing people and explain how some populations	
are more vulnerable than others. 3.3.2.ER Use maps and other sources of geographic information to gather evidence and draw	
conclusions about patterns of natural disasters around the world.	
3.3.3.AG Develop a natural disaster safety plan for a community.	
Standard 4: Demonstrate an understanding of varied human cultural	
and economic characteristics across Earth's surface.	
3.4.1.PR Investigate the cultural characteristics of places and regions around the world.	
3.4.2.HS Investigate the economic and land use characteristics of	Decisions, Decisions
places and regions around the world.	
3.4.3.AG Research and create a geographic representation of a contemporary or historic group of people to communicate findings about their cultural characteristics and livelihoods.	
Standard 5 : Demonstrate an understanding of how and why humans have explored and migrated across Earth.	
3.5.1.HS Investigate and explain the economic, social, and political motivations behind human exploration of Earth.	
3.5.2.AG Use maps and other geographic representations to identify exploration patterns	
throughout Earth history.	
3.5.3.HS Investigate and explain the economic, social, political, and environmental motivations	
behind human migration and how places can change as a result.	
3.5.4.AG Use maps and other geographic representations to identify how migration patterns	
affect people and places.	

Grade 3 Reverse Correlations – Social Studies

PLT Activity	Social Studies Standard	
Decisions, Decisions	3.4.2.HS	
The Global Climate	3.2.3.ER	

GRADE FOUR STANDARDS

Grade 4 Science Performance Expectations Correlation to PLT Activities

Performance Expectations	PLT Activities	
4-PS3-1. Use evidence to construct an explanation relating the		
speed of an object to the energy of that object.		
4-PS3-2. Make observations to provide evidence that energy can		
be transferred from place to place by sound, light, heat, and		
electric currents.		
4-PS3-3. Ask questions and predict outcomes about the changes		
in energy that occur when objects collide.		
4-PS3-4. Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.		
4-PS4-1. Develop a model of waves to describe patterns in terms		
of amplitude and wavelength and that waves can cause objects		
to move.		
4-PS4-2. Develop a model to describe that light reflecting from		
objects and entering the eye allows objects to be seen.		
4-PS4-3. Generate and compare multiple solutions that use		
patterns to transmit information.		
4-LS1-1. Construct an argument that plants and	Bursting Buds	
animals have internal and external structures	Have Seeds Will Travel	
that function together in a system to support	Tree Factory	
survival, growth, behavior, and reproduction.	Tree ID	
4-LS1-2. Use a model to describe that animals	Peppermint Beetle	
receive different types of information through	Get Outside	
their senses, process the information in their		
brain, and respond to the information in		
different ways.		
4-ESS1-1. Identify evidence from patterns in rock formations		
and fossils in rock layers to support an explanation for changes		
in a landscape over time.		
4-ESS2-1. Make observations and/or measurements to provide		
evidence of the effects of weathering or the rate of erosion by		
water, ice, wind, or vegetation. 4-ESS2-2. Analyze and interpret data from maps to describe		
patterns of Earth's features		
4-ESS3-1. Obtain and combine information to	Trees for Many Reasons	
describe that energy and fuels are derived from	Exploration Energy	
natural resources and how their uses affect the	Renewable or Not	
environment.		
4-ESS3-2. Generate and compare multiple	Did You Notice? Decisions, Decisions	
solutions to reduce the impacts of natural Earth	Tree Cookies Exploration Energy	
processes on humans.	Water Wonders	

Grade 4 Reverse Correlations – Science

Science Performance Expectations
4-LS1-1
4-ESS3-2
4-LS1-1
4-LS1-2
4-LS1-2
4-ESS3-2
4-LS1-1
4-LS1-1
4-ESS3-1
4-ESS3-2
4-ESS3-2
4-ESS3-1 4-ESS3-2
4-ESS3-1

Grade 4 Mathematics Standards Correlation to PLT Activities

Standards	PLT Activities
4.NSBT.1 Understand that, in a multi-digit whole number, a digit represents ten times what the same digit represents in the place to its right.	
4.NSBT.2 Recognize math periods and number patterns within each period to read and write in standard form large numbers through 999,999,999.	
4.NSBT.3 Use rounding as one form of estimation and round whole numbers to any given place value.	
4.NSBT.4 Fluently add and subtract multi-digit whole numbers using	Discover Diversity
strategies to include a standard algorithm.	Exploration Energy
	Reduce, Reuse, Recycle
	Soil Builders
4.NSBT.5 Multiply up to a four-digit number by a one-digit number and	Get Outside
multiply a two-digit number by a two-digit number using strategies based	Reduce, Reuse, Recycle
on place value and the properties of operations. Illustrate and explain the	-
calculation by using rectangular arrays, area models and/or equations.	
4.NSBT.6 Divide up to a four-digit dividend by a one-digit divisor using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division.	
4.NSF.1 Explain why a fraction (i.e., denominators 2, 3, 4, 5, 6, 8, 10, 12, 25, 100), ab , is equivalent to a	
fraction, $n \times a \ n \times b$, by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize	
and generate equivalent fractions.	
4.NSF.2 Compare two given fractions (i.e., denominators 2, 3, 4, 5, 6, 8, 10, 12, 25, 100) by creating	
common denominators or numerators, or by comparing to a benchmark fraction such as 1 2 and	
represent the comparison using the symbols >, =, or 4.NSF.3 Develop an understanding of addition and subtraction of fractions (i.e., denominators 2, 3, 4, 5,	
6, 8, 10, 12, 25, 100) based on unit fractions. a. Compose and decompose a fraction in more than one	
way, recording each composition and decomposition as an addition or subtraction equation; b. Add and	
,	

4.NSF.4 Apply and extend an understanding of multiplication by multiplying a whole number and a	
fraction (i.e., denominators 2, 3, 4, 5, 6, 8, 10, 12, 25, 100). a. Understand a fraction a b as a multiple of	
1 b ; b. Understand a multiple of a b as a multiple of 1 b , and use this understanding to multiply a fraction by a whole number; c. Solve real-world problems involving multiplication of a fraction by a	
whole number (i.e., use visual fraction models and equations to represent the problem).	
4.NSF.5 Express a fraction with a denominator of 10 as an equivalent fraction with a denominator of 100	
and use this technique to add two fractions with respective denominators of 10 and 100.	
4.NSF.6 Write a fraction with a denominator of 10 or 100 using decimal notation, and read and write a	
decimal number as a fraction.	
4.NSF.7 Compare and order decimal numbers to hundredths, and justify using concrete and visual	
models. 4.ATO.1 Interpret a multiplication equation as a comparison (e.g. interpret 35 = 5x7 as a statement that	
35 is 5 times as many as 7 and 7 times as many as 5.) Represent verbal statements of multiplicative	
comparisons as multiplication equations.	
4.ATO.2 Solve real-world problems using multiplication (product unknown)	Get Outside
and division (group size unknown, number of groups unknown).	
4.ATO.3 Solve multi-step, real-world problems using the four operations.	Every Drop Counts
Represent the problem using an equation with a variable as the unknown	
quantity.	
4.ATO.4 Recognize that a whole number is a multiple of each of its factors. Find all factors for a whole number in the range $1-100$ and determine whether the whole number is prime or composite	
4.ATO.5 Generate a number or shape pattern that follows a given rule and determine a term that	
appears later in the sequence.	
4.G.1 Draw points, lines, line segments, rays, angles (i.e., right, acute, obtuse), and parallel and	
perpendicular lines. Identify these in two-dimensional figures.	
4.G.2 Classify quadrilaterals based on the presence or absence of parallel or perpendicular lines.	
4.G.3 Recognize right triangles as a category, and identify right triangles.	
4.G.4 Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the	
figure can be folded along the line into matching parts. Identify line symmetric figures and draw lines of	
symmetry A NADA 1 Convert recovery records within a single custom of recovery rest	Describe a Describe
4.MDA.1 Convert measurements within a single system of measurement,	Bursting Buds
customary (i.e., in., ft., yd., oz., lb., sec., min., hr.) or metric (i.e., cm, m, km,	Here We Grow Again
g, kg, mL, L) from a larger to a smaller unit.	
4.MDA.2 Solve real-world problems involving distance/length, intervals of	Adopt a Tree
time within 12 hours, liquid volume, mass, and money using the four	Bursting Buds
operations.	Every Drop Counts
	· ·
	Exploration Energy
	Field, Forest, & Stream
	Here We Grow Again
	Nature's Skyscrapers
	Soil Builders
	Tree Cookies
AAADA 2 A sala ilia sasa sala sala sala sala sala	Trees in Trouble
4.MDA.3 Apply the area and perimeter formulas for rectangles.	Discover Diversity
4.MDA.4 Create a line plot to display a data	Here We Grow Again
4.MDA.5 Understand the relationship of an angle measurement to a circle.	
4.MDA.6 Measure and draw angles in whole number degrees using a protractor	
4.MDA.7 Solve addition and subtraction problems to find unknown angles in real-world and mathematical problems.	
4.MDA.8 Determine the value of a collection of coins and bills greater than \$1.00.	

Grade 4 Reverse Correlations – Mathematics

PLT Activity	Mathematics Standard	
Adopt a Tree	4.MDA.2	
Bursting Buds	4.MDA.1, 4.MDA.2	
Here We Grow Again	4.MDA.1, 4.MDA.2, 4.MDA.4	
Discover Diversity	4.NSBT.4, 4.MDA.3	
Every Drop Counts	4.ATO.3, 4.MDA.2	
Get Outside	4.NSBT.5, 4.ATO.2	
Soil Builders	4.NSBT.4, 4.MDA.2	
Tree Cookies	4.MDA.2	
Trees in Trouble	4.MDA.2	
Exploration Energy	4.NSBT.4, 4.MDA.2	
Field, Forest, & Stream	4.MDA.2	
Nature's Skyscrapers	4.MDA.2	
Reduce, Reuse, Recycle	4.NSBT.4, 4.NSBT.5	

Grade 4 ELA Standards Correlation to PLT Activities

	Standards	PLT Activities
	Standard 1: Formulate relevant, self-generated questions based	A Tree's Life (V)
	on interests and/or needs that can be investigated.	Adopt a Tree (V)
		Did You Notice (V)
		Every Drop Counts
		Fallen Log
		Tree Cookies
		Web of Life
	Standard 2: Transact with texts to formulate questions, propose	Trees for Many Reasons
>	explanations, and consider alternative views and multiple	
INQUIRY	perspectives.	A Tuesda Life (M)
5	Standard 3: Construct knowledge, applying disciplinary concepts	A Tree's Life (V)
g	and tools, to build deeper understanding of the world through	Adopt a Tree (V)
=	exploration, collaboration, and analysis.	Energy Exploration
		Did You Notice (V)
		Fallen Log Tree Cookies
	Standard 4: Synthosize integrated information to chare learning	A Tree's Life (V)
and/or take action	Standard 4: Synthesize integrated information to share learning	Backyard Safari (V)
	and/or take action.	Did You Notice (V)
		Every Drop Counts
		Fallen Log
		Energy Exploration (V)
	Standard 5: Reflect throughout the inquiry process to assess metacognition, broaden	Energy Exploration (v)
	understanding, and guide actions, both individually and collaboratively.	

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Standards	PLT Activities
Standard 1: Demonstrate understanding of the organization and basic features of print.	
Standard 2: Demonstrate understanding of spoken words, syllables, and sounds.	
Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
Standard 5: Determine meaning and develop logical interpretations by making predictions, inferring, drawing conclusions, analyzing, synthesizing, providing evidence, and investigating multiple interpretations.	
Standard 6: Summarize key details and ideas to support analysis	Trees for Many Reasons
of thematic development.	
Standard 7: Analyze the relationship among ideas, themes, or topics in multiple media, formats, and in visual, auditory, and kinesthetic modalities.	
Standard 8: Analyze characters, settings, events, and ideas as	Trees for Many Reasons
they develop and interact within a particular context.	
Standard 9: Interpret and analyze the author's use of words,	Trees for Many Reasons
phrases, and conventions, and how their relationships shape	
meaning and tone in print and multimedia texts.	
Standard 10: Apply a range of strategies to determine and deepen the meaning of known, unknown, and multiple-meaning words, phrases, and jargon; acquire and use general academic and domain-specific vocabulary.	
Standard 11: Analyze and provide evidence of how the author's	Trees for Many Reasons
choice of point of view, perspective, and purpose shape	
content, meaning, and style.	
Standard 12: Analyze and critique how the author uses	Trees for Many Reasons
structures in print and multimedia texts to shape meaning and	
impact the reader.	
Standard 13: Read independently and comprehend a variety of texts for the purposes of reading for enjoyment, acquiring new learning, and building stamina; reflect on and respond to increasingly complex text over time.	

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Standards	PLT Activities
Standard 1: Demonstrate understanding of the organization and basic features of print.	
Standard 2: Demonstrate understanding of spoken words, syllables, and sounds.	
Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
Standard 5: Determine meaning and develop logical	Nothing Succeeds Like
interpretations by making predictions, inferring, drawing	Succession (V)
conclusions, analyzing, synthesizing, providing evidence and	
investigating multiple interpretations.	
Standard 6: Summarize key details and ideas to support	Did You Notice (V)
analysis of central ideas.	Tree Cookies
Standard 7: Research events, topics, ideas, or concepts through	A Tree's Life (V)
multiple media, formats, and in visual, auditory, and	Backyard Safari (V)
kinesthetic modalities.	Bursting Buds (V)
	Did You Notice (V)
	Peppermint Beetle (V)

	Charting Biodiversity
	Tree Cookies
	Web of Life
Standard 8: Interpret and analyze the author's use of words, phrases, text features, conventions, and structures, and how their relationships shape meaning and tone in print and multimedia texts.	
Standard 9: Apply a range of strategies to determine the meaning of known, unknown, and multiple meaning words, phrases, and jargon; acquire and use general academic and domain-specific vocabulary.	
Standard 10: Analyze and provide evidence of how the author's choice of purpose and perspective shapes content, meaning, and style.	
Standard 11: Analyze and critique how the author uses structures in print and multimedia texts to craft informational and argument writing.	
Standard 12: Read independently and comprehend a variety of texts for the purposes of reading for enjoyment, acquiring new learning, and building stamina; reflect on and respond to increasingly complex text over time.	

	Standards	PLT Activities
	Standard 1: Write arguments to support claims with clear reasons and relevant evidence.	
	Standard 2: Write informative/explanatory texts to examine and convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content. Standard 3: Write narratives to develop real or imagined	A Tree's Life (V) Bursting Buds (V) Tree Factory Tree ID Trees in Trouble Water Wonders Web of Life A Tree's Life (V)
	experiences or events using effective techniques, well-chosen details, and well structured event sequences.	Bursting Buds (V) Fallen Log Get Outside Water Wonders
WRITING	Standard 4: Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	A Tree's Life (V) Bursting Buds (V) Fallen Log Get Outside Tree Factory Tree ID Trees in Trouble Water Wonders Web of Life
	Standard 5: Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.	A Tree's Life (V) Bursting Buds (V) Fallen Log Get Outside Tree Factory Tree ID Trees in Trouble Water Wonders Web of Life

Standard 6: Write independently, legibly, and routinely for a	A Tree's Life (V)
variety of tasks, purposes, and audiences over short and	Bursting Buds (V)
extended time frames.	Fallen Log
	Get Outside
	Poet Tree
	Tree Factory
	Tree ID
	Trees in Trouble
	Water Wonders
	Web of Life

	Standards	PLT Activities
	Standard 1: Interact with others to explore ideas and concepts,	Backyard Safari (V)
	communicate meaning, and develop logical interpretations	Did You Notice (V)
	through collaborative conversations; build upon the ideas of	Have Seeds Will Travel (V)
	others to clearly express one's own views while respecting	We All Need Trees (V)
	diverse perspectives.	Charting Biodiversity
		Discover Diversity
		Fallen Log
		My Green Future
		Peek at Packaging
		Soil Builders
		Tree Cookies
		Trees for Many Reasons
Z		Our Federal Forests (V)
COMMUNICATION	Standard 2: Articulate ideas, claims, and perspectives in a logical	A Tree's Life (V)
ΙΨ	sequence using information, findings, and credible evidence	Adopt a Tree (V)
2	from sources.	Backyard Safari (V)
5		Did You Notice (V)
Ξ		Charting Biodiversity
Σ		Discover Diversity
8		Fallen Log
		Poet Tree
		Tree Cookies
		Energy Exploration (V)
	Standard 3: Communicate information through strategic use of	A Tree's Life (V)
	multiple modalities and multimedia to enrich understanding	Adopt a Tree (V)
	when presenting ideas and information.	Charting Biodiversity
		Discover Diversity
		Fallen Log
		My Green Future
		Poet Tree
		Soil Builders
		Water Wonders
		Energy Exploration (V)
		Our Federal Forests (V)

Standard 4: Critique how a speaker addresses content and uses	Poet Tree
craft techniques that stylistically and structurally inform,	Soil Builders
engage, and impact audience and convey messages.	
Standard 5: Incorporate craft techniques to engage and impact	Poet Tree
audience and convey messages.	

(V) Variation for 3-5

Grade 4 Reverse Correlations – English Language Arts

PLT Activity	Standard
A Tree's Life (V)	4.I.1, 4.I.3, 4.I.4, 4.RI.7, 4.W.2, 4.W.3, 4.W.4, 4.W.5, 4.W.6, 4.C.2,
	4.C.3
Adopt a Tree (V)	4.l.1, 4.l.3, 4.C.2, 4.C.3
Backyard Safari (V)	4.I.4, 4.RI.7, 4.C.1, 4.C.2
Bursting Buds (V)	4.RI.7, 4.W.2, 4.W.3, 4.W.4, 4.W.5, 4.W.6
Did You Notice (V)	4.I.1, 4.I.3, 4.I.4, 4.RI.6, 4.RI.7, 4.C.1, 4.C.2,
Peppermint Beetle	4.RI.7
Have Seeds Will Travel (V)	4.C.1
We All Need Trees (V)	4.C.1
Charting Biodiversity	4.RI.7, 4.C.1, 4.C.2, 4.C.3
Discover Diversity	4.C.1, 4.C.2, 4.C.3
Every Drop Counts	4.1.1, 4.1.4
Fallen Log	4.l.1, 4.l.3, 4.l.4, 4.W.3, 4.W.4, 4.W.5, 4.W.6, 4.C.1, 4.C.2, 4.C.3
Get Outside	4.W.3, 4.W.4, 4.W.5, 4.W.6
My Green Future	4.C.1, 4.C.3
Peek at Packaging	4.C.1
Poet Tree	4.W.6, 4.C.2, 4.C.3, 4.C.4, 4.C.5
Soil Builders	4.C.1, 4.C.3, 4.C.4
Tree Cookies	4.I.1, 4.I.3, 4.RI.6, 4.RI.7, 4.C.1, 4.C.2,
Tree Factory	4.W.2, 4.W.4, 4.W.5, 4.W.6
Trees for Many Reasons	4.I.2, 4.RL.6, 4.RL.8, 4.RL.9, 4.RL.11, 4.RL.12, 4.C.1,
Tree ID	4.W.2, 4.W.4, 4.W.5, 4.W.6
Trees in Trouble	4.W.2, 4.W.4, 4.W.5, 4.W.6
Water Wonders	4.W.2, 4.W.3, 4.W.4, 4.W.5, 4.W.6, 4.C.3
Web of Life	4.I.1, 4.RI.7, 4.W.2, 4.W.4, 4.W.5, 4.W.6
Exploration Energy (V)	4.1.3, 4.1.4, 4.C.2, 4.C.3
Nothing Succeeds Like	4.RI.5
Succession (V)	
Our Federal Forests (V)	4.C.1, 4.C.3

Grade 4 Social Studies Standards Correlation to PLT Activities*

*There are no PLT activities that correlate to these 4th grade standards.

Standard 1: Demonstrate an understanding of the settlement and colonization of North America, including South Carolina, between 1600–1730. 4.1.CC Identify the effects of changing economic systems on the diverse populations in British North America. 4.1.P Explain the development of political institutions and social characteristics that defined the British colonial regions. 4.1.CX Contextualize the experience of Africans, Europeans, and Native Americans in South Carolina. 4.1.CX Contextualize the experience of Africans, Europeans, and Native Americans in South Carolina. 4.1.CX clientify patterns of change and continuity in the development of economic systems in British North America. 4.1.E Analyze multiple perspectives on the economic, political, and social developments of British North America and South Carolina. 5tandard 2: Demonstrate an understanding of the identity of a new nation, including the state of South Carolina between 1730-1800. 4.2.CO Compare the roles of marginalized groups during the American Revolution. 4.2.CX Contextualize South Carolina's role in the development of the U. S. as a democratic republic. 4.2.CX Contextualize South Carolina's role in the development of the new nation. 4.2.CX Cardualize South Carolina's role in the development of the new nation. 5tandard 3: Demonstrate an understanding of the expansion and growth of South Carolina and the United States between 1800–1850. 4.3.CA Contextualize South Grights. 4.3.CA Analyze multiple perspectives on the economic, political, and social developments of the new nation. 5tandard 3: Demonstrate an understanding of the expansion and growth of South Carolina and the United States between 1800–1850. 4.3.CA Contextualize South Carolina's role in the development of the particular developments of the new nation. 5tandard 3: Demonstrate an understanding of the expansion and growth of South Carolina and the United States between 1800–1850.
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Standard A: Demonstrate an understanding of economic inclitical and social divisions during the
United States Civil War, including the role of South Carolina between 1850–1870.
4.4.CO Compare the economic and political causes of the Civil War. 4.4.CX Contextualize South Carolina's
experience during the Civil War.
4.4.CE Explain the effects of military strategies utilized by the Union and the Confederacy.
4.4.P Explain how emancipation was achieved as a result of civic participation.
4.4.CX Contextualize South Carolina's experience during the Civil War.
4.4.CC Identify and evaluate the economic, political, and social changes experienced throughout the Civil War.
4.4.E Analyze the economic, political, and social divisions during the Civil War.
Standard 5: Demonstrate an understanding of the contributions different groups made to impact
the economic, political, and social developments during Reconstruction of the United States and
South Carolina in the period of 1860– 1880.
4.5.CO Compare the roles of various groups on Reconstruction
4.5.CE Analyze the impact of federal legislation on the South during Reconstruction.
4.5.P Summarize Reconstruction as a turning point in American history.
4.5.CX Contextualize the economic, labor, political, and social conditions in South Carolina during the period of
Reconstruction.
4.5.CC Identify and evaluate the impact of economic, political, and social events on the African American
experience throughout Reconstruction.
4.5.E Analyze multiple perspectives of the economic, political, and social effects of Reconstruction on different
populations in the South and in other regions of the U. S.

GRADE FIVE STANDARDS

Grade 5 Science Performance Expectations Correlation to PLT Activities

Performance Expectations	PLT Activities
5-PS1-1. Develop a model to describe that matter is made of	
particles too small to be seen.	
5-PS1-2. Measure and graph quantities to provide evidence that	
regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is	
conserved.	
5-PS1-3. Make observations and measurements to identify	
materials based on their properties.	
5-PS1-4. Conduct an investigation to determine whether the	
mixing of two or more substances results in new substances.	
5-PS2-1. Support an argument that the gravitational force exerted by Earth on objects is directed down	
5-PS3-1. Use models to describe that energy in	Birds and Bugs Web of Life
animals' food (used for body repair, growth,	Signs of Fall
motion, and to maintain body warmth) was once	Tree Factory
energy from the sun.	
5-LS1-1. Support an argument with evidence that	Here We Grow Again Tree Factory
plants obtain materials they need for growth	Every Tree for Itself*
mainly from air and water.	Tree Cookies
5-LS2-1. Develop a model to describe the	Birds and Bugs Web of Life
movement of matter among plants, animals,	Fallen Log
decomposers, and the environment.	Soil Builders
5-ESS1-1. Support an argument with evidence that the apparent	
brightness of the sun compared to other stars is due to their	
relative distances from Earth. 5-ESS1-2. Represent data in graphical displays to reveal patterns	
of daily changes in length and direction of shadows, day and	
night, and the seasonal appearance of some stars in the night sky.	
5-ESS2-1. Develop a model using an example to	Field, Forest, & Stream
describe ways the geosphere, biosphere,	Water Wonders*
hydrosphere, and/or atmosphere interact.	
5-ESS2-2. Describe and graph the amounts of saltwater and fresh	
water in various reservoirs to provide evidence about the	
distribution of water on Earth.	
5-ESS3-1. Evaluate potential solutions to	Every Drop Counts Decisions, Decisions
problems that individual communities face in	Trees for Many Reasons Trees in Trouble
protecting the Earth's resources and	Exploration Energy Our Federal Forests
environment.	Improve Your Place Plant a Tree
	Renewable or Not? Reduce, Reuse, Recycle

^{*} Fully addresses the Performance Expectation

Grade 5 Reverse Correlations – Science

PLT Activity	Science Performance Expectations
Birds and Bugs	5-LS2-1 5-PS3-1
Here We Grow Again	5-LS1-1
Every Drop Counts	5-ESS3-1
Every Tree for Itself*	5-LS1-1
Fallen Log	5-LS2-1
Signs of Fall	5-PS3-1
Soil Builders	5-LS2-1 5-ESS2-1
Tree Cookies	5-LS1-1
Tree Factory	5-PS3-1 5-LS1-1
Trees for Many Reasons	5-ESS3-1
Trees in Trouble	5-ESS3-1
Water Wonders*	5-ESS2-1
Web of Life	5-PS3-1 5-LS2-1
Decisions, Decisions	5-ESS3-1
Exploration Energy	5-ESS3-1
Field, Forest, and Stream	5-ESS2-1
Improve your Place	5-ESS3-1
Our Federal Forests	5-ESS3-1
Plant a Tree	5-ESS3-1
Reduce, Reuse, Recycle	5-ESS3-1
Renewable or Not?	5-ESS3-1

^{*} Fully addresses the Performance Expectation

Grade 5 Mathematics Standards Correlation to PLT Activities

Standards	PLT Activities
5.NSBT.1 Understand that, in a multi-digit whole number, a digit in one place represents 10 times what the same digit represents in the place to its right and represents 1 10 times what the same digit represents in the place to its left.	
5.NSBT.2 Use whole number exponents to explain: a. patterns in the number of zeroes of the product when multiplying a number by powers of 10; b. patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10.	
5.NSBT.3 Read and write decimals in standard and expanded form.	Renewable or Not
Compare two decimal numbers to the thousandths using the symbols >,	
=, or <.	
5.NSBT.4 Round decimals to any given place value within thousandths.	
5.NSBT.5 Fluently multiply multi-digit whole numbers using strategies to	Every Drop Counts
include a standard algorithm.	Exploration Energy
	Get Outside
	If You Were the Boss
	Nature's Skyscrapers

If You Were the Boss Nature's Skyscrapers Nature's Skyscrapers If You Were the Boss Nature's Skyscrapers In		
relationship between multiplication and division. 5.NSET.7 Add, subtract, multiply, and divide decimal numbers to hundredths using concrete area models and drawings. 5.NSET.4 Add and subtract fractions with unlike denominators (including mixed numbers) using a variety of models, including an area model and number line. 5.NSE.3 Solve real-world problems involving addition and subtraction of fractions with unlike denominators. 5.NSE.3 Understand the relationship between fractions and division of whole numbers by interpreting a fraction as the numerator divided by the denominator (i.e., a b = a ± b) 5.NSE.3 Understand the relationship between fractions and division of whole numbers by interpreting a fraction as the numerator divided by the denominator (i.e., a b = a ± b) 5.NSE.4 Stefand the concept of multiplication to multiply a fraction and finding the areas of nectages with fractional side lengths; b. interpret multiplication and finding the areas of nectages with fractional side lengths; b. interpret multiplication of a fraction by a whole number by a fraction and compute the product. 5.NSE.5 Solver fractions, mixed numbers, whole numbers and a whole number by a fraction and compute the product. 5.NSE.5 Solver fractions, mixed numbers, who are mumber by a fraction less than 1 results in a product smaller than 1 (e.g., improper fractions, and numbers, capial may multiplying a given number by a fraction less than 1 results in a product smaller than the given number. d. Explain why multiplying a given number by a fraction less than 1 results in a product smaller than the given number. d. Explain why multiplying a given number by a fraction less than 1 results in a product smaller than the given number. 5.NSE.6 Solver real to 1 (e.g. inproduct smaller than the given number of a product smaller mumbers) well and the product is the product of the fraction of the fraction of the fraction by a non-zero whole number and compute the quotient; b. Interpret division of a unit fraction by a non-zero whole number a	5.NSBT.6 Divide up to a four-digit dividend by a two-digit divisor, using	Exploration Energy
5.NSBT.7 Add, subtract, multiply, and divide decimal numbers to hundredths using concrete area models and drawings. 5.NSF.1 Add and subtract fractions with unlike denominators (including mixed numbers) using a variety of models, including an area model and number line. 5.NSF.3 Understand the relationship between fractions and division of whole numbers by interpreting a fraction as the numerator divided by the denominator. 5.NSF.3 Understand the relationship between fractions and division of whole numbers by interpreting a fraction as the numerator divided by the denominator (i.e., a b = a + b). 5.NSF.4 Extend the concept of multiplication to multiply a fraction or whole number by a fraction. a. Recognize the relationship between multiplying fractions and finding the areas of rectangles with fractions lays the lengths; b. Interpret multiplication of a fraction by a whole number and whole number by a fraction and denominator in a more and compute the product; c. Interpret multiplying with fractions. a. Estimate the size of the product based on the size of the two factors; b. Explain with ymultiplying a given number by a number greater than 1 (e.g., improper fractions, mixed numbers), whole numbers by a fraction los as whole number by a fraction in the given number; c. Explain why multiplying a given number by a number greater than 1 (e.g., improper fractions, mixed numbers), but the number by a fraction los and denominator by the same number by a threating the fraction by 1. 5.NSF.5 Solve real-world problems involving multiplication of a fraction by a fraction, improper fraction and administry by the same number has the same effect as multiplying the fraction by 1. 5.NSF.5 Solve real-world problems involving division of unit fractions and whole numbers by using visual fraction models and equations. a. Interpret division of a unit fraction by a non-zero whole number and compute the quotient, b. Interpret division of a unit fraction by a non-zero whole number and compute the quotient, b. Interpret division of	strategies based on place value, the properties of operations, and the	If You Were the Boss
Number of the second of the se	relationship between multiplication and division.	Nature's Skyscrapers
s. NSF.1 Add and subtract fractions with unlike denominators (including mixed numbers) using a variety of models, including an area model and number line. 5. NSF.2 Solve real-world problems involving addition and subtraction of fractions with unlike denominators. 5. NSF.3 Understand the relationship between fractions and division of whole numbers by interpreting a fraction as the numerator divided by the denominator (i.e., a b = a ± b) 5. NSF.4 Extend the concept of multiplication to multiply a fraction or whole number by a fraction. a. Recognite the relationship between unliphying fractions and finding the areas of rectangles with fractions are fraction by a divide lengths; b. Interpret multiplication of a fraction by a whole number and a whole number by a fraction and compute the product. Interpret multiplication in which both factors are fractions by a fraction and compute the product. Interpret multiplication in which both factors are fractions by a fraction and compute the product. So the product is a fraction by a fraction by a fraction by a fraction and whole number by a fraction and the product is made on the size of the two factors, b. Explain why multiplying age men number by a number by a fraction in which both factors are fraction and an advantage of the two factors, b. Explain why multiplying a given number by a number by a fraction and an advantage of the two factors, b. Explain why multiplying a fraction on standard denominator by the same number by a beginning that the size of the product larger than the given number by a fraction in myloring that the size of the product fraction and advantage of the size of the two factors, beginning that the size of the product fraction and the product fraction and the problems involving multiplication of a fraction by a non-zero whole number and compute the quotient, b. Interpret division of a unit fraction by a non-zero whole number and compute the quotient, b. Interpret division of a unit fraction by a non-zero whole number and product and the product of	5.NSBT.7 Add, subtract, multiply, and divide decimal numbers to	If You Were the Boss
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S.NSF.3 Solve real-world problems involving addition and subtraction of fractions with unlike denominators. 5.NSF.3 Understand the relationship between fractions and division of whole numbers by interpreting a fraction as the numerator divided by the denominator (i.e., a $b = a + b$) 5.NSF.4 Extend the concept of multiplication to multiply a fraction or whole number by a fraction. a. Recognize the relationship between multiplying fractions and finding the area of rectangles with fractional side lengths; b. Interpret multiplication of a fraction by a whole number by a fraction and compute the product; c. Interpret multiplication in which both factors are fractions less than an ean denomple the product. 5.NSF.3 bustify the reasonableness of a product when multiplying with fractions. a. Estimate the size of the product based on the size of the two factors; b. Explain why multiplying a given number by a number greater than 1 (e.g., improper fractions, mixed numbers, whole numbers) results in a product angle rehan the given number c. Explain why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; c. Explain why multiplying a given number by a fraction less than 1 results in a product smaller than the given number c. Explain why multiplying a given number by a fraction less than 1 results in a product smaller than the given number. C. Explain why multiplying the fraction in such an advance of the same number of the same number. C. Explain why multiplying the fraction in such an advance of the same number of the number o		
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Determine the volume of right rectangular prisms using the formula derived from packing right	
rectangular prisms and counting the layers of standard unit cubes.	
5.MDA.4 Differentiate among perimeter, area and volume and identify which application is	
appropriate for a given situation.	1

Grade 5 Reverse Correlations – Mathematics

PLT Activity	Mathematics Standard
Here We Grow Again	5.ATO.3
Every Drop Counts	5.NSBT.5
Get Outside	5.NSBT.5
Soil Builders	5.MDA.1
Exploration Energy	5.NSBT.5, 5.NSBT.6, 5.MDA.1
If You Were the Boss	5.NSBT.5, 5.NSBT.6, 5.NSBT.7
Nature's Skyscrapers	5.NSBT.5, 5.NSBT.6, 5.NSF.3, 5.NSF.8, 5.MDA.1
Renewable or Not	5.NSBT.3

Grade 5 ELA Standards Correlation to PLT Activities

	Standards	PLT Activities
	Standard 1: Formulate relevant, self-generated questions based	A Tree's Life (V)
	on interests and/or needs that can be investigated.	Adopt a Tree (V)
		Did You Notice (V)
		Every Drop Counts
		Fallen Log
		Tree Cookies
		Web of Life
	Standard 2: Transact with texts to formulate questions, propose	Trees for Many Reasons
	explanations, and consider alternative views and multiple	
INQUIRY	perspectives.	
5	Standard 3: Construct knowledge, applying disciplinary concepts	A Tree's Life (V)
Q	and tools, to build deeper understanding of the world through	Adopt a Tree (V)
Z	exploration, collaboration, and analysis.	Energy Exploration
		Did You Notice (V)
		Fallen Log
		Tree Cookies
	Standard 4: Synthesize integrated information to share learning	A Tree's Life (V)
	and/or take action.	Backyard Safari (V)
		Did You Notice (V)
		Every Drop Counts
		Fallen Log
		Energy Exploration (V)
	Standard 5: Reflect throughout the inquiry process to assess metacognition, broaden understanding, and guide actions, both individually and collaboratively.	

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Standards	PLT Activities
Standard 1: Demonstrate understanding of the organization and basic features of print.	
Standard 2: Demonstrate understanding of spoken words, syllables, and sounds.	
Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
Standard 5: Determine meaning and develop logical interpretations by making predictions, inferring, drawing conclusions, analyzing, synthesizing, providing evidence, and investigating multiple interpretations.	
Standard 6: Summarize key details and ideas to support analysis	Trees for Many Reasons
of thematic development.	
Standard 7: Analyze the relationship among ideas, themes, or topics in multiple media, formats, and in visual, auditory, and kinesthetic modalities.	
Standard 8: Analyze characters, settings, events, and ideas as	Trees for Many Reasons
they develop and interact within a particular context.	
Standard 9: Interpret and analyze the author's use of words,	Trees for Many Reasons
phrases, and conventions, and how their relationships shape	
meaning and tone in print and multimedia texts.	
Standard 10: Apply a range of strategies to determine and deepen the meaning of known, unknown, and multiple-meaning words, phrases, and jargon; acquire and use general academic and domain-specific vocabulary.	
Standard 11: Analyze and provide evidence of how the author's	Trees for Many Reasons
choice of point of view, perspective, and purpose shape	
content, meaning, and style.	
Standard 12: Analyze and critique how the author uses	Trees for Many Reasons
structures in print and multimedia texts to shape meaning and	
impact the reader.	
Standard 13: Read independently and comprehend a variety of texts for the purposes of reading for enjoyment, acquiring new learning, and building stamina; reflect on and respond to increasingly complex text over time.	

READING: INFORMATIONAL TEXT

Standards	PLT Activities
Standard 1: Demonstrate understanding of the organization and basic features of print.	
Standard 2: Demonstrate understanding of spoken words, syllables, and sounds.	
Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
Standard 5: Determine meaning and develop logical	Nothing Succeeds like
interpretations by making predictions, inferring, drawing	Succession (V)
conclusions, analyzing, synthesizing, providing evidence and	
investigating multiple interpretations.	
Standard 6: Summarize key details and ideas to support	Did You Notice (V)
analysis of central ideas.	Tree Cookies
Standard 7: Research events, topics, ideas, or concepts through	A Tree's Life (V)
multiple media, formats, and in visual, auditory, and	Backyard Safari (V)
kinesthetic modalities.	Bursting Buds (V)
	Did You Notice (V)
	Peppermint Beetle (V)

	Charting Biodiversity
	Tree Cookies
	Web of Life
Standard 8: Interpret and analyze the author's use of words, phrases, text features, conventions, and structures, and how their relationships shape meaning and tone in print and multimedia texts.	
Standard 9: Apply a range of strategies to determine the meaning of known, unknown, and multiple meaning words, phrases, and jargon; acquire and use general academic and domain-specific vocabulary.	
Standard 10: Analyze and provide evidence of how the author's choice of purpose and perspective shapes content, meaning, and style.	
Standard 11: Analyze and critique how the author uses structures in print and multimedia texts to craft informational and argument writing.	
Standard 12: Read independently and comprehend a variety of texts for the purposes of reading for enjoyment, acquiring new learning, and building stamina; reflect on and respond to increasingly complex text over time.	

	Standards	PLT Activities
	Standard 1: Write arguments to support claims with clear reasons and relevant evidence.	
	Standard 2: Write informative/explanatory texts to examine and convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content.	A Tree's Life (V) Bursting Buds (V) Tree Factory Tree ID Trees in Trouble Water Wonders Web of Life
	Standard 3: Write narratives to develop real or imagined experiences or events using effective techniques, well-chosen details, and well-structured event sequences.	A Tree's Life (V) Bursting Buds (V) Fallen Log Get Outside Water Wonders
WRITING	Standard 4: Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	A Tree's Life (V) Bursting Buds (V) Fallen Log Get Outside Tree Factory Tree ID Trees in Trouble Water Wonders Web of Life
	Standard 5: Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.	A Tree's Life (V) Bursting Buds (V) Fallen Log Get Outside Tree Factory Tree ID Trees in Trouble Water Wonders Web of Life

Standard 6: Write independently, legibly, and routinely for a	A Tree's Life (V)
variety of tasks, purposes, and audiences over short and	Bursting Buds (V)
extended time frames.	Fallen Log
	Get Outside
	Tree Factory
	Tree ID
	Trees in Trouble
	Water Wonders
	Web of Life
	Poet Tree

	Standards	PLT Activities
	Standard 1: Interact with others to explore ideas and concepts,	Backyard Safari (V)
	communicate meaning, and develop logical interpretations	Did You Notice (V)
	through collaborative conversations; build upon the ideas of	Have Seeds Will Travel (V)
	others to clearly express one's own views while respecting	We All Need Trees (V)
	diverse perspectives.	Charting Biodiversity
		Discover Diversity
		Fallen Log
		My Green Future
		Peek at Packaging
		Soil Builders
		Tree Cookies
		Trees for Many Reasons
Z		Our Federal Forests (V)
COMMUNICATION	Standard 2: Articulate ideas, claims, and perspectives in a logical	A Tree's Life (V)
A	sequence using information, findings, and credible evidence	Adopt a Tree (V)
⊇	from sources.	Backyard Safari (V)
		Did You Notice (V)
ĮΞ		Charting Biodiversity
Σ		Discover Diversity
8		Fallen Log
		Poet Tree
		Tree Cookies
		Energy Exploration (V)
	Standard 3: Communicate information through strategic use of	A Tree's Life (V)
	multiple modalities and multimedia to enrich understanding	Adopt a Tree (V)
	when presenting ideas and information.	Charting Biodiversity
		Discover Diversity
		Fallen Log
		My Green Future
		Poet Tree
		Soil Builders
		Water Wonders
		Energy Exploration (V)
		Our Federal Forests (V)

Standard 4: Critique how a speaker addresses content and uses	Poet Tree
craft techniques that stylistically and structurally inform,	Soil Builders
engage, and impact audience and convey messages.	
Standard 5: Incorporate craft techniques to engage and impact	Poet Tree
audience and convey messages.	

(V) Variation for 3-5

(E) Enrichment Activity

Grade 5 Reverse Correlations – English Language Arts

PLT Activity	Standard
A Tree's Life (V)	5.I.1, 5.I.3, 5.I.4, 5.RI.7, 5.W.2, 5.W.3, 5.W.4, 5.W.5, 5.W.6, 5.C.2, 5.C.3
Adopt a Tree (V)	5.I.1, 5.I.3, 5.C.2, 5.C.3
Backyard Safari (V)	5.I.4, 5.RI.7, 5.C.1, 5.C.2
Bursting Buds (V)	5.RI.7, 5.W.2, 5.W.3, 5.W.4, 5.W.5, 5.W.6
Did You Notice (V)	5.I.1, 5.I.3, 5.I.4, 5.RI.6, 5.RI.7, 5.C.1, 5.C.2,
Peppermint Beetle	5.RI.7
Have Seeds Will Travel (V)	5.C.1
We All Need Trees (V)	5.C.1
Charting Biodiversity	5.RI.7, 5.C.1, 5.C.2, 5.C.3
Discover Diversity	5.C.1, 5.C.2, 5.C.3
Every Drop Counts	5.I.1, 5.I.4
Fallen Log	5.I.1, 5.I.3, 5.I.4, 5.W.3, 5.W.4, 5.W.5, 5.W.6, 5.C.1, 5.C.2, 5.C.3
Get Outside	5.W.3, 5.W.4, 5.W.5, 5.W.6
My Green Future	5.C.1, 5.C.3
Peek at Packaging	5.C.1
Poet Tree	5.W.6, 5.C.2, 5.C.3, 5.C.4, 5.C.5
Soil Builders	5.C.1, 5.C.3, 5.C.4
Tree Cookies	5.I.1, 5.I.3, 5.RI.6, 5.RI.7, 5.C.1, 5.C.2,
Tree Factory	5.W.2, 5.W.4, 5.W.5, 5.W.6
Trees for Many Reasons	5.I.2, 5.RL.6, 5.RL.8, 5.RL.9, 5.RL.11, 5.RL.12, 5.C.1,
Tree ID	5.W.2, 5.W.4, 5.W.5, 5.W.6
Trees in Trouble	5.W.2, 5.W.4, 5.W.5, 5.W.6
Water Wonders	5.W.2, 5.W.3, 5.W.4, 5.W.5, 5.W.6, 5.C.3
Web of Life	5.I.1, 5.RI.7, 5.W.2, 5.W.4, 5.W.5, 5.W.6
Exploration Energy (V)	5.I.3, 5.I.4, 5.C.2, 5.C.3
Nothing Succeeds Like Succession (V)	5.RI.5
Our Federal Forests (V)	5.C.1, 5.C.3

Grade 5 Social Studies Standards Correlation to PLT Activities

Standards	PLT Activities
Standard 1: Demonstrate an understanding of the economic,	
political, and social effects of expansion and industrialization on the	
United States and South Carolina between 1860–1910.	
5.1.CO Compare the physical landscape and demographics of the	
U.S. before and after the Transcontinental Railroad.	
5.1.CE Examine push- and pull-factors related to immigration and	
expansion on urban and rural populations during the period.	
5.1.P Summarize how the United States' involvement in the Spanish	
American War led to increased U.S. economic expansion and	
imperialism.	
5.1.CX Contextualize how the Second Industrial Revolution led to an	
increased desire for raw materials and the United States	
involvement in imperialistic efforts and economic expansion.	
5.1.CC Summarize how imperialism and economic expansion	
impacted the experiences of different groups and shaped American	
cultural identities.	
5.1.E Analyze multiple perspectives on the economic, political, and	
social effects of western expansion, the Industrial Revolution, and	
immigration through primary and secondary sources, and evaluate	
the subsequent changes to the U. S.	
Standard 2: Demonstrate an understanding of how international	
events and conditions during the early 20th Century (i.e., 1910–	
1940) affected the United States and South Carolina.	
5.2.CO Compare the cultural and economic impacts of the 1929	
Stock Market Crash on the U. S. and South Carolina.	
5.2.CE Examine the primary causes of World War I and the events	
which led to U.S. involvement.	
5.2.P Summarize how the role of the federal government expanded	
during the period.	
5.2.CX Contextualize the post-war economic climate on the cultural	
landscape throughout the United States and South Carolina.	
5.2.CC Examine the continuities and changes that resulted from New	
Deal programs and the impact these programs had on various	
groups throughout the U. S. and South Carolina.	
5.2.E Evaluate multiple perspectives from the period, including the	
economic, political, and social impacts of World War I, the 1920s,	
the Great Depression, and the New Deal using primary and	
secondary sources.	
Standard 3: Demonstrate an understanding of the economic,	
political, and social effects of World War II, the Holocaust, and their	
aftermath (i.e., 1930–1950) on the United States and South Carolina.	
5.3.CO Compare the ideologies and policies that led to World War II.	
5.3.CE Analyze the cause and effect of government-sponsored	
policies within the United States and Europe related to the status of	
different groups, to include the Holocaust.	
5.3.P Summarize the U.S. government's transition away from	
neutrality policies following World War I that led to its eventual	
involvement in World War II.	
5.3.CX Contextualize the technological and geographic influence on	
military strategies in the Pacific and European theaters of war of	
World War II	
5.3.CC Analyze the changes and continuities regarding the United	
States' international leadership during the period, including the	
rebuilding of Europe and the resettlement of displaced persons	
resulting from the Holocaust.	
5.3.E Analyze multiple perspectives on the economic, political, and	
social effects of World War II and its aftermath using primary and	
secondary sources.	

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Standard 4: Demonstrate an understanding of the conflicts,	
innovations, and social changes in the United States, including South Carolina, from 1950–1980.	
5.4.CO Compare and contrast the capitalist and communist	
ideologies.	
5.4.CE Analyze the causes and impacts of social movements in the U.	
S. and South Carolina.	
5.4.P Summarize the economic, political, and social changes in the U.	
S. after World War II. 5.4.CX Contextualize the tension between the United States and the	
Soviet Union during the Cold War.	
5.4.CC Analyze the continuities and changes of race relations in the	
United States and South Carolina following the Supreme Court	
decisions of Briggs v. Elliott and Brown v. Board of Education.	
5.4.E Analyze multiple perspectives on the economic, political, and	
social effects of the Cold War, Space Race, and Civil Rights Movement using primary and secondary sources.	
Standard 5: Demonstrate an understanding of the	
contemporary global economic, social, and	
political roles of the United States and South	
Carolina from 1980–present	
5.5.CO Compare and contrast the focus of the	
U.S. as a world leader before and after the	
September 11, 2001, attacks.	
5.5.CE Analyze the impact of digital technologies	
on the U.S., and describe the impact those	
technologies had on its global influence.	
5.5.P Summarize the global involvement of the	
U.S. using the fall of the Soviet Union as a turning	
_	
point.	Desirione Desirione
5.5.CX Contextualize the changes in rural	Decisions, Decisions
communities in South Carolina within national	
and global industries.	
5.5.CC Analyze the continuities and changes in	Global Goods
U.S. relationships with countries around the	The Global Climate
world as a result of the economic, political, and	
social changes in this period.	
5.5.E Analyze multiple perspectives on the	Global Goods
economic, political, and social effects of global	The Global Climate
interdependence after 1980 using primary and	The Global Chillate
secondary sources.	

Grade 5 Reverse Correlations – Social Studies

PLT Activity	Social Studies Standard
Decisions, Decisions	5.5.CX
Global Goods	5.5.CC, 5.5.E
The Global Climate	5.5.CC, 5.5.E

GRADE SIX STANDARDS

Grade 6 Science Performance Expectations Correlation to PLT Activities

Performance Expectations	PLT Activities
6-PS1-4. Develop and use a model that predicts and describes changes in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.	
6-PS3-3. Apply scientific principles to design, construct, and test a device that either minimizes or maximizes thermal energy transfer.	
6-PS3-4. Plan an investigation to determine the relationships among the energy transferred, the type of matter, the mass, and the change in the average kinetic energy of the particles as measured by the temperature of the sample.	
6-PS4-2. Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various materials	
6-LS1-1. Conduct an investigation to provide evidence that living things are made of cells; either one cell or many different numbers and types of cells.	
6-LS1-2. Develop and use a model to describe the function of a cell as a whole and ways the parts of cells contribute to the function.	Every Tree for Itself Signs of Fall Tree Factory
6-LS1-3. Use argument supported by evidence for how the body is a system of interacting subsystems composed of groups of cells.	
6-LS1-8. Gather and synthesize information that sensory receptors respond to stimuli by sending messages to the brain for	Get Outside * Peppermint Beetle*
immediate behavior or storage as memories. 6-ESS1-4. Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's 4.6-billion-year-old history.	
6-ESS2-1. Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process	
6-ESS2-2. Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales. 6-ESS2-3. Analyze and interpret data on the distribution of fossils and rocks, continental	
shapes, and seafloor structures to provide evidence of the past plate motions. 6-ESS2-4. Develop a model to describe the cycling of water	Water Wonders
through Earth's systems driven by energy from the sun and the force of gravity.	
6-ESS2-5. Analyze and interpret data to provide evidence for how	Field, Forest, & Stream
the motions and complex interactions of air masses result in	The Global Climate
changes in weather conditions. 6-ESS2-6. Develop and use models to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine regional climates.	
6-ESS3-2. Analyze and interpret data on natural hazards to identify patterns, which help forecast future catastrophic events and inform the development of technologies to mitigate their effects.	

f * Introduction activity for this performance expectation

Grade 6 Reverse Correlations – Science

PLT Activity	Science Performance Expectations
Get Outside *	6-LS1-8
Peppermint Beetle *	6-LS1-8
Every Tree for Itself **	6-LS1-2
Signs of Fall	6-LS1-2 (chlorophyll)
Tree Factory	6-LS1-2
Water Wonders	6-ESS2-4
Field, Forest, and Stream	6-ESS2-5
The Global Climate	6-ESS2-5

^{*}Creates sensory experiences as an introduction to 6-LS1-8

Grade 6 Mathematics Standards Correlation to PLT Activities

Standards	PLT Activities
6.NS.1 Compute and represent quotients of positive fractions using a variety of procedures (e.g.,	
visual models, equations, and real-world situations).	
6.NS.2 Fluently divide multi-digit whole numbers using a standard algorithmic approach	
6.NS.3 Fluently add, subtract, multiply and divide multi-digit decimal numbers using a standard algorithmic approach.	
6.NS.4 Find common factors and multiples using two whole numbers. a. Compute the greatest common factor (GCF) of two numbers both less than or equal to 100. b. Compute the least common multiple (LCM) of two numbers both less than or equal to 12. c. Express sums of two whole numbers, each less than or equal to 100, using the distributive property to factor out a common factor of the original addends. 6.NS.5 Understand that the positive and negative representations of a number are opposites in direction and value. Use integers to represent quantities in real-world situations and explain the meaning of zero in each situation. 6.NS.6 Extend the understanding of the number line to include all rational numbers and apply this concept to the coordinate plane. a. Understand the concept of opposite numbers, including zero, and their relative locations on the number line. b. Understand that the signs of the coordinates in ordered pairs indicate their location on an axis or in a quadrant on the coordinate plane. c.	
Recognize when ordered pairs are reflections of each other on the coordinate plane across one axis, both axes, or the origin. d. Plot rational numbers on number lines and ordered pairs on coordinate planes	
6.NS.7 Understand and apply the concepts of comparing, ordering, and finding absolute value to rational numbers. a. Interpret statements using equal to (=) and not equal to (≠). b. Interpret statements using less than (), and equal to (=) as relative locations on the number line. c. Use concepts of equality and inequality to write and to explain real-world and mathematical situations. d. Understand that absolute value represents a number's distance from zero on the number line and use the absolute value of a rational number to represent real world situations. e. Recognize the difference between comparing absolute values and ordering rational numbers. For negative rational numbers, understand that as the absolute value increases, the value of the negative number decreases	
6.NS.8 Extend knowledge of the coordinate plane to solve real-world and mathematical problems involving rational numbers. a. Plot points in all four quadrants to represent the problem. b. Find the distance between two points when ordered pairs have the same x-coordinates or same y-coordinates. c. Relate finding the distance between two points in a coordinate plane to absolute value using a number line.	

^{**}Role of photosynthesis in tree growth

6.NS.9 Investigate and translate among multiple representations of rational numbers (fractions,	
decimal numbers, percentages). Fractions should be limited to those with denominators of 2, 3, 4, 5, 8, 10, and 100.	
6.RP.1 Interpret the concept of a ratio as the relationship between two	Renewable or Not
quantities, including part to part and part to whole.	Reduce, Reuse, Recycle
6.RP.2 Investigate relationships between ratios and rates. a. Translate	Exploration Energy
between multiple representations of ratios (i.e., $a b / a : b, a : b$, visual	Renewable or Not
models). b. Recognize that a rate is a type of ratio involving two different	Reduce, Reuse, Recycle
units. c. Convert from rates to unit rates	•
6.RP.3 Apply the concepts of ratios and rates to solve real-world and	Exploration Energy
mathematical problems. a. Create a table consisting of equivalent ratios	Field, Forest, & Stream
and plot the results on the coordinate plane. b. Use multiple	Forest in the City
representations, including tape diagrams, tables, double number lines,	If You Were the Boss
and equations, to find missing values of equivalent ratios. c. Use two	Nature's Skyscrapers
tables to compare related ratios. d. Apply concepts of unit rate to solve	Our Federal Forests
problems, including unit pricing and constant speed. e. Understand that	Renewable or Not
a percentage is a rate per 100 and use this to solve problems involving	Reduce, Reuse, Recycle
wholes, parts, and percentages. f. Solve one-step problems involving	The Global Climate
ratios and unit rates (e.g., dimensional analysis).	What's in a Label
6.EEI.1 Write and evaluate numerical expressions involving whole-number exponents and positive	Wilat 3 III a Label
rational number bases using the Order of Operations.	
6.EEI.2 Extend the concepts of numerical expressions to algebraic expressions involving positive	
rational numbers. a. Translate between algebraic expressions and verbal phrases that include variables. b. Investigate and identify parts of algebraic expressions using mathematical terminology,	
including term, coefficient, constant, and factor. c. Evaluate real-world and algebraic expressions for	
specific values using the Order of Operations. Grouping symbols should be limited to parentheses,	
braces, and brackets. Exponents should be limited to whole-numbers. 6.EEI.3 Apply mathematical properties (e.g., commutative, associative, distributive) to generate	
equivalent expressions.	
6.EEI.4 Apply mathematical properties (e.g., commutative, associative, distributive) to justify that	
two expressions are equivalent. 6.EEI.5 Understand that if any solutions exist, the solution set for an equation or inequality consists	
of values that make the equation or inequality true.	
6.EEI.6 Write expressions using variables to represent quantities in real-	Nature's Skyscrapers
world and mathematical situations. Understand the meaning of the	
variable in the context of the situation.	
6.EEI.7 Write and solve one-step linear equations in one variable involving nonnegative rational	
numbers for real-world and mathematical situations.	
6.EEI.8 Extend knowledge of inequalities used to compare numerical expressions to include algebraic expressions in real-world and mathematical situations. a. Write an inequality of the form <i>x</i>	
> c or $x < c$ and graph the solution set on a number line. b. Recognize that inequalities have	
infinitely many solutions.	
6.EEI.9 Investigate multiple representations of relationships in real-world	Get Outside
and mathematical situations. a. Write an equation that models a	The Global Climate
relationship between independent and dependent variables. b. Analyze	Nothing Succeeds like
the relationship between independent and dependent variables using	Succession
graphs and tables. c. Translate among graphs, tables, and equations.	
6.GM.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques	
in the context of solving real-world and mathematical problems.	
6.GM.2 Use visual models (e.g., model by packing) to discover that the formulas for the volume of a	
right rectangular prism $(V = lwh, V = Bh)$ are the same for whole or fractional edge lengths. Apply these formulas to solve real-world and mathematical problems	
6.GM.3 Apply the concepts of polygons and the coordinate plane to real-world and mathematical	
situations. a. Given coordinates of the vertices, draw a polygon in the coordinate plane. b. Find the	
length of an edge if the vertices have the same x-coordinates or same y-coordinates.	

6.GM.4 Unfold three-dimensional figures into two-dimensional rectangles and triangles (nets) to	
find the surface area and to solve real-world and mathematical problems.	
6.DS.1 Differentiate between statistical and non-statistical questions.	
6.DS.2 Use center (mean, median, mode), spread (range, interquartile	Forest in the City
range, mean absolute value), and shape (symmetrical, skewed left,	
skewed right) to describe the distribution of a set of data collected to	
answer a statistical question.	
6.DS.3 Recognize that a measure of center for a numerical data set	
summarizes all of its values with a single number, while a measure of	
variation describes how its values vary with a single number.	
6.DS.4 Select and create an appropriate display for numerical data,	
including dot plots, histograms, and box plots.	
6.DS.5 Describe numerical data sets in relation to their real-world	Every Drop Counts
context. a. State the sample size. b. Describe the qualitative aspects of	Field, Forest, & Stream
the data (e.g., how it was measured, units of measurement). c. Give	Forest in the City
measures of center (median, mean). d. Find measures of variability	Reduce, Reuse, Recycle
(interquartile range, mean absolute deviation) using a number line. e.	
Describe the overall pattern (shape) of the distribution. f. Justify the	
choices for measure of center and measure of variability based on the	
shape of the distribution. g. Describe the impact that inserting or	
deleting a data point has on the measures of center (median, mean) for	
a data set.	

Grade 6 Reverse Correlations – Mathematics

PLT Activity	Mathematics Standard
Every Drop Counts	6.DS.5
Get Outside	6.EEI.9
Exploration Energy	6.RP.2, 6.RP.3
Field, Forest, & Stream	6.RP.3, 6.DS.5
Forest in the City	6.RP.3, 6.DS.2, 6.DS.5
If You Were the Boss	6.RP.3
Nature's Skyscrapers	6.RP.3, 6.EEI.6
Nothing Succeeds like Succession	6.EEI.9
Our Federal Forests	6.RP.3
Reduce, Reuse, Recycle	6.RP.1, 6.RP.2, 6.RP.3, 6.DS.5
Renewable or Not	6.RP.1, 6.RP.2, 6.RP.3
The Global Climate	6.RP.3, 6.EEI9
What's in a Label	6.RP.3

Grade 6 ELA Standards Correlation to PLT Activities

	Standards	PLT Activities
	Standard 1: Formulate relevant, self-generated questions based on interests and/or needs that can be investigated.	Every Drop Counts Fallen Log Tree Cookies
		Web of Life Decisions, Decisions Forest in the City
	Standard 2: Transact with texts to formulate questions, propose explanations, and consider alternative views and multiple perspectives.	Trees for Many Reasons(V) Decisions, Decisions Environmental Justice for All If You Were the Boss
INQUIRY	Standard 3: Construct knowledge, applying disciplinary concepts and tools, to build deeper understanding of the world through exploration, collaboration, and analysis.	Energy Exploration Did You Notice (V) Fallen Log Tree Cookies Decisions, Decisions Environmental Justice for All Exploration Energy Forest in the City Improve Your Place Invasive Species
	Standard 4: Synthesize integrated information to share learning and/or take action.	Every Drop Counts Fallen Log Decisions, Decisions Environmental Justice for All Exploration Energy Forest in the City Global Goods (E) Invasive Species Plant a Tree
	Standard 5: Reflect throughout the inquiry process to assess metacognition, broaden understanding, and guide actions, both individually and collaboratively.	

Standards	PLT Activities
Standard 1: Demonstrate understanding of the organization and basic features of print.	
Standard 2: Demonstrate understanding of spoken words, syllables, and sounds.	
Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
Standard 5: Determine meaning and develop logical interpretations by making predictions, inferring, drawing conclusions, analyzing, synthesizing, providing evidence, and investigating multiple interpretations.	
Standard 6: Summarize key details and ideas to support	Trees for Many Reasons(V)
analysis of thematic development.	
Standard 7: Analyze the relationship among ideas, themes, or topics in multiple media, formats, and in visual, auditory, and kinesthetic modalities.	

Standard 8: Analyze characters, settings, events, and ideas as	Trees for Many Reasons(V)
they develop and interact within a particular context.	
Standard 9: Interpret and analyze the author's use of words,	Trees for Many Reasons(V)
phrases, and conventions, and how their relationships shape	
meaning and tone in print and multimedia texts.	
Standard 10: Apply a range of strategies to determine and deepen the meaning of known, unknown, and multiple-meaning words, phrases, and jargon; acquire and use general academic and domain-specific vocabulary.	
Standard 11: Analyze and provide evidence of how the	Trees for Many Reasons(V)
author's choice of point of view, perspective, and purpose	
shape content, meaning, and style.	
Standard 12: Analyze and critique how the author uses	Trees for Many Reasons(V)
structures in print and multimedia texts to shape meaning and	
impact the reader.	
Standard 13: Read independently and comprehend a variety of texts for the purposes of reading for enjoyment, acquiring new learning, and building stamina; reflect on and respond to increasingly complex text over time.	

	Standards	PLT Activities
	Standard 1: Demonstrate understanding of the organization and basic features of print.	
	Standard 2: Demonstrate understanding of spoken words, syllables, and sounds.	
	Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
	Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
READING: INFORMATIONAL TEXT	Standard 5: Determine meaning and develop logical interpretations by making predictions, inferring, drawing conclusions, analyzing, synthesizing, providing evidence and investigating multiple interpretations.	Environmental Justice for All If You Were the Boss Nothing Succeeds like Succession
	Standard 6: Summarize key details and ideas to support analysis of central ideas.	Tree Cookies Environmental Justice for All Exploration Energy Global Goods (E) Invasive Species Life on the Edge
READII	Standard 7: Research events, topics, ideas, or concepts through multiple media, formats, and in visual, auditory, and kinesthetic modalities.	Charting Biodiversity Tree Cookies Web of Life Environmental Justice for All Exploration Energy Global Goods Invasive Species Life on the Edge Renewable or Not

Standard 8: Interpret and analyze the author's use of words, phrases, text features, conventions, and structures, and how their relationships shape meaning and tone in print and multimedia texts.	
Standard 9: Apply a range of strategies to determine the meaning of known, unknown, and multiple meaning words,	Renewable or Not
phrases, and jargon; acquire and use general academic and domain-specific vocabulary.	
Standard 10: Analyze and provide evidence of how the author's choice of purpose	
and perspective shapes content, meaning, and style. Standard 11: Analyze and critique how the author uses structures in print and multimedia texts to craft informational and argument writing.	
Standard 12: Read independently and comprehend a variety of texts for the purposes of reading for enjoyment, acquiring new learning, and building stamina; reflect on	
and respond to increasingly complex text over time.	

	Standards	PLT Activities
	Standard 1: Write arguments to support claims with clear	Global Goods (E)
	reasons and relevant evidence.	What's in a Label
	Standard 2: Write informative/explanatory texts to examine	Tree Factory
	and convey complex ideas and information clearly and	Trees in Trouble (V) (E)
	accurately through the effective selection, organization, and	Water Wonders
	analysis of content.	Web of Life
		Decisions, Decisions
		Environmental Justice for All
		Forest in the City
		If You Were the Boss
		Improve Your Place
		Life on the Edge
		Nothing Succeeds Like
9		Succession
 	Standard 3: Write narratives to develop real or imagined	Water Wonders
WRITING	experiences or events using effective techniques, well-chosen	If You Were the Boss
>	details, and well-structured event sequences.	
	Standard 4: Demonstrate command of the conventions of	Tree Factory
	standard English grammar and usage when writing or	Trees in Trouble (E)
	speaking.	Water Wonders
		Web of Life
		Decisions, Decisions
		Environmental Justice for All
		Global Goods (E)
		If You Were the Boss
		Improve Your Place
		Life on the Edge
		What's in a Label
	Standard 5: Demonstrate command of the conventions of	Tree Factory
	standard English capitalization, punctuation, and spelling	Trees in Trouble (E)
	when writing.	Water Wonders

	Web of Life
	Decisions, Decisions
	Global Goods (E)
	If You Were the Boss
	Improve Your Place
	Life on the Edge
	What's in a Label
Standard 6: Write independently, legibly, and routinely for a	Poet Tree (V)
variety of tasks, purposes, and audiences over short and	Tree Factory
extended time frames.	Trees in Trouble (E)
	Water Wonders
	Web of Life
	Global Goods (E)
	If You Were the Boss
	Improve Your Place
	What's in a Label

	Standards	PLT Activities
	Standard 1: Interact with others to explore ideas and	Charting Biodiversity
	concepts, communicate meaning, and develop logical	Discover Diversity
	interpretations through collaborative conversations; build	Peek at Packaging (V)
	upon the ideas of others to clearly express one's own views	Tree Cookies
	while respecting diverse perspectives.	Trees for Many Reasons
		Decisions, Decisions
		Environmental Justice for All
		Exploration Energy
_		Forest in the City
		If You Were the Boss
 		Improve Your Place
S		Invasive Species
COMMUNICATION		Plant a Tree
1		Renew or Not
~		What's in a Label
		Our Federal Forests
Ö	Standard 2: Articulate ideas, claims, and perspectives in a	Charting Biodiversity
	logical sequence using information, findings, and credible	Discover Diversity
	evidence from sources.	Tree Cookies
		Decisions, Decisions
		Environmental Justice for All
		Energy Exploration
		The Global Climate
		If You Were the Boss
		Improve Your Place
		Invasive Species
		Life on the Edge
		Life of the Luge

Standard 3: Communicate information through strategic use	Charting Biodiversity
of multiple modalities and multimedia to enrich	Discover Diversity
	Poet Tree (V)
understanding when presenting ideas and information.	, ,
	Decisions, Decisions
	Environmental Justice for
	All
	Energy Exploration
	The Global Climate
	If You Were the Boss
	Improve Your Place
	Invasive Species
	Life on the Edge
	Our Federal Forests
	Reduce, Reuse, Recycle
	What's in a Label
Standard 4: Critique how a speaker addresses content and	Poet Tree (V)
uses craft techniques that stylistically and structurally inform,	Decisions, Decisions
engage, and impact audience and convey messages.	Environmental Justice for
	All
	Energy Exploration
	If You Were the Boss
	Invasive Species
	Life on the Edge
Standard 5: Incorporate craft techniques to engage and	Poet Tree (V)
impact audience and convey messages.	Decisions, Decisions
, ,	Environmental Justice for
	All
	All

(V) Variation for 6-8

(E) Enrichment Activity

Grade 6 Reverse Correlations – English Language Arts

PLT Activity	Standard
Charting Biodiversity	6.RI.7, 6.C.1, 6.C.2, 6.C.3,
Discover Diversity	6.C.1, 6.C.2, 6.C.3,
Every Drop Counts	6.1.1, 6.1.4,
Fallen Log	6.1.1, 6.1.3, 6.1.4,
Peek at Packaging (V)	6.C.1,
Poet Tree (V)	6.W.6, 6.C.3, 6.C.4, 6.C.5
Tree Cookies	6.I.1, 6.I.3, 6.RI.6, 6.RI.7, 6.C.1, 6.C.2,
Tree Factory	6.W.2, 6.W.4, 6.W.5, 6.W.6,
Trees for Many Reasons (V)	6.I.2, 6.RL.6, 6.RL.8, 6.RL.9, 6.RL.11, 6.RL.12, 6.C.1,
Trees in Trouble (V) (E)	6.W.2, 6.W.4, 6.W.5, 6.W.6,
Water Wonders	6.W.2, 6.W.3, 6.W.4, 6.W.5, 6.W.5, 6.W.6,
Web of Life	6.I.1, 6.RI.7, 6.W.2, 6.W.4, 6.W.5, 6.W.6,

Decisions, Decisions	6.I.1, 6.I.2, 6.I.3, 6.I.4, 6.W.2, 6.W.4, 6.W.5, 6.C.1, 6.C.2, 6.C.3, 6.C.4,
	6.C.5
Environmental Justice for All	6.I.2, 6.I.3, 6.I.4, 6.RI.5, 6.RI.6, 6.RI.7, 6.W.2, 6.W.4, 6.C.1, 6.C.2,
	6.C.3, 6.C.4, 6.C.5
Exploration Energy	6.I.3, 6.I.4, 6.RI.6, 6.RI.7, 6.C.1, 6.C.2, 6.C.3, 6.C.4,
Forest in the City	6.I.1, 6.I.3, 6.I.4, 6.W.2, 6.C.1,
Global Goods (E)	6.I.4, 6.RI.6, 6.RI.7, 6.W.1, 6.W.4, 6.W.5, 6.W.6,
If You Were the Boss	6.I.2, 6.RI.5, 6.W.2, 6.W.3, 6.W.4, 6.W.5, 6.W.6, 6.C.1, 6.C.2, 6.C.3,
	6.C.4,
Improve Your Place	6.I.3, 6.I.4, 6.W.2, 6.W.4, 6.W.5, 6.W.6, 6.C.1, 6.C.2, 6.C.3,
Invasive Species	6.I.3, 6.I.4, 6.RI.6, 6.RI.7, 6.C.1, 6.C.2, 6.C.3, 6.C.4,
Life on the Edge	6.RI.6, 6.RI.7, 6.W.2, 6.W.4, 6.W.5, 6.C.2, 6.C.3, 6.C.4,
Nothing Succeeds Like	6.RI.5, 6.W.2,
Succession	
Our Federal Forests	6.C.1, 6.C.3,
Plant a Tree	6.I.4, 6.C.1,
Reduce, Reuse, Recycle	6.C.3,
Renewable or Not	6.I.1, 6.RI.7, 6.RI.9, 6.C.1,
The Global Climate	6.C.2, 6.C.3,
What's in a Label	6.W.1, 6.W.4, 6.W.5, 6.W.6, 6.C.1, 6.C.3,

Grade 6 Social Studies Standards Correlation to PLT Activities

Standards	PLT Activities
Standard 1: Demonstrate an understanding of the organization and transformation(s) of world civilizations to 550.	
6.1.CO Compare the development of social systems among the early river valley civilizations.	
6.1.CE Summarize how environmental factors influenced the interactions within and between early civilizations.	
6.1.P Analyze the shift from early to classical civilizations and the enduring contributions of classical civilizations.	
6.1.CX Contextualize the origins and spread of major world religions and their enduring influence.	
6.1.CC Analyze changes and continuities that influenced the organization and technological advancements of early and classical world civilizations.	
6.1.E Analyze multiple perspectives on the political, intellectual, and social achievements of classical societies through a variety of primary and secondary sources.	
Standard 2: Demonstrate an understanding of the increased global interactions among humans from the end of the classical era to the invention of the printing press (i.e., 550–1450).	
6.2.CO Compare the political systems within world civilizations.	
6.2.CE Explain the impact of global exchanges among world civilizations.	
6.2.P Summarize the increased global exchanges among world societies using the Crusades as a major turning point.	
6.2.CX Contextualize the historical effects of the expansion of the Turks and Mongols on Europe and Asia.	
6.2.CC Evaluate continuities and changes in cultural and economic interactions between societies in both West Africa and the Americas.	
6.2.E Analyze multiple perspectives on the increased interactions among and between world societies through a variety of primary and secondary sources.	
Standard 3: Demonstrate an understanding of the development of the Atlantic World from the invention of the printing press to the Industrial Revolution (i.e., 1450–1760).	

6.3.CE Explain the impact of increased global exchanges on the development of the Atlantic World. 6.3.P Summarize the impact of the Transatlantic Slave Trade on ideological, political, and social systems in the Atlantic World. 6.3.CX Contextualize the experience of indigenous peoples due to expansion and the conflict that arose from it. 6.3.CX Canalyze the intellectual, political, and social changes in relation to the idea of individual rights from Humanism to the Enlightenment. 6.3.CA nalyze the short and long term impact of the Atlantic World's growth using primary and secondary sources across multiple perspectives. Standard 4: Demonstrate an understanding of how increased global exchanges promoted revolution from 1760 to the beginning of the 20th Century. 6.4.CC Compare the political revolutions which resulted from the Enlightenment 6.4.CE Analyze the economic, political, and social impacts of colonialism and the rise of imperialism. 6.4.CX Contextualize the local and global impacts of the Industrial Revolution. 6.4.CX Contextualize the environmental impact of the Industrial Revolution. 6.4.CX Analyze the progression of nationalism in the 19th through the early 20th century 6.4.E Analyze multiple perspectives on increased global interactions and revolutions through a variety of primary and secondary sources. Standard 5: Demonstrate an understanding of the development of global interdependence from 1920 to the present. 6.5.CO Compare the global movements that resulted in the advancement or limitation of human rights during the 20th and 21st centuries. 6.5.CO Compare the global movements that resulted in the advancement or limitation of human rights during the 20th and 21st centuries. 6.5.CO Compare the global movements that resulted in the advancement or limitation of human rights during the 20th and 21st centuries. 6.5.CO Compare the impact of increased global interdependence using the Great Depression and Cold War as major turning points in the 20th century. 6.5.CX Contextualize various sustainability eff	6.3.CO Compare European motivations for exploration and settlement.	
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interdependence. The Global Climate	6.5.P Analyze the impact of increased global interdependence using the Great Depression and Cold War as major turning points in the 20th century.	
Climate	6.5.CX Contextualize various sustainability efforts amid increasing global	Global Goods
Climate	interdependence.	The Global
6.5.CC Analyze the progression of technological developments and the resulting cultural diffusion throughout		Climate
the 20th and 21st centuries.	6.5.CC Analyze the progression of technological developments and the resulting cultural diffusion throughout the 20th and 21st centuries.	
	6.5.E Analyze multiple perspectives on global interdependence during the 20th and 21st centuries through a variety of primary and secondary sources.	

Grade 6 Reverse Correlations

PLT Activity	Social Studies Standard	
Global Goods	6.5.CX	
The Global Climate	6.5.CX	

GRADE SEVEN STANDARDS

Grade 7 Science Performance Expectations Correlation to PLT Activities

Performance Expectations	PLT Activities
7-PS1-1. Develop models to describe the atomic composition of simple molecules and	
extended structures	
7-PS1-2. Analyze and interpret data on the properties of substances before and after the substances interact to determine if a chemical reaction has occurred.	
7-PS1-3. Gather and make sense of information to describe that	Global Goods (Part B)
synthetic materials come from natural resources and impact	
society.	
7-PS1-5. Develop and use a model to describe how the total number of atoms does not	
change in a chemical reaction and thus mass is conserved.	
7-PS1-6. Undertake a design project to construct, test, and modify a device that either	
releases or absorbs thermal energy by chemical processes. 7-PS3-1. Construct and interpret graphical displays of data to describe the proportional	
relationships of kinetic energy to the mass of an object and to the speed of an object.	
7-PS3-2. Develop a model to describe that when the arrangement of objects interacting	
at a distance changes, different amounts of potential energy are stored in the system.	
7-PS3-5. Construct, use, and present arguments to support the claim that when the	
kinetic energy of an object changes, energy is transferred to or from the object.	
7-LS1-6. Construct a scientific explanation based on evidence for	Every Tree for Itself
the role of photosynthesis in the cycling of matter and flow of	Signs of Fall
energy into and out of organisms.	Trees in Trouble
	Plant a Tree
7-LS1-7. Develop a model to describe how food molecules in plants and animals are	
rearranged through chemical reactions forming new molecules that support growth	
and/or release energy as this matter moves through an organism.	
7-LS2-1. Analyze and interpret data to provide evidence for the	Every Tree for Itself
effects of resource availability on organisms and populations of	Tree Cookies
organisms in an ecosystem.	Field, Forest & Stream
7-LS2-2. Construct an explanation that predicts patterns of interactions among	
organisms across multiple ecosystems.	
7-LS2-3. Develop a model to describe the cycling of matter and	Fallen Log
flow of energy among living and nonliving parts of an ecosystem.	Soil Builders
	Water Wonders
	Web of Life
	Field, Forest & Stream
	The Global Climate
7-LS2-4. Construct an argument supported by empirical evidence	Trees for Many Reasons
that changes to physical or biological components of an	Field, Forest & Stream
ecosystem affect populations.	
7-LS2-5. Evaluate competing design solutions for maintaining	Water Wonders (Part B)
biodiversity and ecosystem services.	Decisions, Decisions
biodiversity and ecosystem services.	If You Were Boss
	Improve Your Place

7-ESS3-1. Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.	Life on the Edge Our Federal Forests Plant a Tree Reduce, Reuse, Recycle Renewable or Not? The Global Climate
7-ESS3-3. Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.	Trees for Many Reasons Decisions, Decisions Environmental Justice for All If You Were the Boss Life on the Edge Reduce, Reuse, Recycle Renewable or Not? The Global Climate What's in a Label?
7-ESS3-4. Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.	Exploration Energy Global Goods Reduce, Reuse, Recycle Renewable or Not? The Global Climate What's in a Label?
7-ESS3-5. Ask questions to clarify evidence of the factors that have impacted global temperatures over the past century.	The Global Climate

Grade 7 Reverse Correlations – Science

PLT Activity	Science Performance Expectations		
Every Tree for Itself	7-LS1-6	7-LS2-1	
Fallen Log	7-LS2-3		
Signs of Fall	7-LS1-6		
Soil Builders	7-LS2-3		
Tree Cookies	7-LS2-1		
Trees for Many Reasons	7-LS2-4	7-ESS3-3	
Trees in Trouble	7-LS1-6		
Water Wonders (Part B)	7-LS2-3	7-LS2-5	
Web of Life	7-LS2-3		
Decisions, Decisions	7-ESS3-3	7-LS2-5	
Environmental Justice for All	7-ESS3-3		
Exploration Energy	7-ESS3-4		
Field, Forest, and Stream	7-LS2-1	7-LS2-3	7-LS2-4

Global goods (Part B)	7-PS1-3	7-ESS3-4	
If You Were the Boss	7-ESS3-3	7-LS2-5	
Improve your Place	7-LS2-5 (ET	S1.B)	
Life on the Edge	7-LS2-1	7-ESS3-3	7-LS2-5
Our Federal Forests	7-LS2-5		
Plant a Tree	7-LS1-6	7-LS2-5	
Reduce, Reuse, Recycle	7-ESS3-3	7-LS2-5	7-ESS3-4
Renewable or Not?	7-ESS3-3	7-LS2-5	7-ESS3-4
The Global Climate	7-LS2-3	7-ESS3-3	7-LS2-5
	7-ESS3-4	7-ESS3-5	
What's in a Label?	7-ESS3-3	7-ESS3-4	

Grade 7 Mathematics Standards Correlation to PLT Activities

Standards	PLT Activities
7.NS.1 Extend prior knowledge of operations with positive rational numbers to add and to subtract all rational numbers and represent the sum or difference on a number line. a. Understand that the additive inverse of a number is its opposite and their sum is equal to zero. b. Understand that the sum of two rational numbers $(p+q)$ represents a distance from p on the number line equal to $ q $ where the direction is indicated by the sign of q. c. Translate between the subtraction of rational numbers and addition using the additive inverse, $p-q=p+(-q)$. d. Demonstrate that the distance between two rational numbers on the number line is the absolute value of their difference. e. Apply mathematical properties (e.g., commutative, associative, distributive, or the properties of identity and inverse elements) to add and subtract rational numbers.	
7.NS.2 Extend prior knowledge of operations with positive rational numbers to multiply and to divide all rational numbers. a. Understand that the multiplicative inverse of a number is its reciprocal and their product is equal to one. b. Understand sign rules for multiplying rational numbers. c. Understand sign rules for dividing rational numbers and that a quotient of integers (with a non-zero divisor) is a rational number. d. Apply mathematical properties (e.g., commutative, associative, distributive, or the properties of identity and inverse elements) to multiply and divide rational numbers. e. Understand that some rational numbers can be written as integers and all rational numbers can be written as fractions or decimal numbers that terminate or repeat.	
7.NS.3 Apply the concepts of all four operations with rational numbers to solve real-world and mathematical problems.	If You Were the Boss Exploration Energy Renewable or Not Nature's Skyscrapers Forest in the City
7.NS.4 Understand and apply the concepts of comparing and ordering to rational numbers. a. Interpret statements using less than (), less than or equal to (≤), greater than or equal to (≥), and equal to (=) as relative locations on the number line. b. Use concepts of equality and inequality to write and explain real-world and mathematical situations.	
7.NS.5 Extend prior knowledge to translate among multiple representations of rational numbers (fractions, decimal numbers, percentages). Exclude the conversion of repeating decimal numbers to fractions.	
7.RP.1 Compute unit rates, including those involving complex fractions, with like or different units.	Exploration Energy Getting Outside If You Were the Boss
7.RP.2 Identify and model proportional relationships given multiple representations, including tables, graphs, equations, diagrams, verbal descriptions, and real-world situations. a. Determine when two quantities are in a proportional relationship. b. Recognize or compute the constant of proportionality. c. Understand that the constant of proportionality is the	Nature's Skyscrapers Field, Forest, & Stream Forest in the City If You Were Boss Our Federal Forests

unit rate. d. Use equations to model proportional relationships. e. Investigate the graph of a proportional relationship and explain the meaning of specific points (e.g., origin, unit rate) in the context of the situation.	Nothing Succeeds like Succession Reduce, Reuse, Recycle Renewable or Not The Global Climate What's in a Label
7.RP.3 Solve real-world and mathematical problems involving ratios and	Nature's Skyscrapers
percentages using proportional reasoning (e.g., multi-step dimensional	Nothing Succeeds like
	Succession
analysis, percent increase/decrease, tax).	
	Water Wonders
7.EEI.1 Apply mathematical properties (e.g., commutative, associative, distributive) to simplify and to factor linear algebraic expressions with rational coefficients.	
7.EEI.2 Recognize that algebraic expressions may have a variety of equivalent forms and determine an appropriate form for a given real-world situation.	
7.EEI.3 Extend previous understanding of Order of Operations to solve multi-step real-world and	
mathematical problems involving rational numbers. Include fraction bars as a grouping symbol.	
7.EEI.4 Apply the concepts of linear equations and inequalities in one variable to real-world and	
mathematical situations. a. Write and fluently solve linear equations of the form $ax + b = c$ and $a(x + b) = c$ where a , b , and c are rational numbers. b. Write and solve multi-step linear equations that include the use of the distributive property and combining like terms. Exclude equations that contain variables on both sides. c. Write and solve two-step linear inequalities. Graph the solution set on a number line and interpret its meaning. d. Identify and justify the steps for solving multi-step linear equations and two-step linear inequalities.	
7.EEI.5 Understand and apply the laws of exponents (i.e., product rule, quotient rule, power to a	
power, product to a power, quotient to a power, zero power property) to simplify numerical	
expressions that include whole-number exponents.	
7.GM.1 Determine the scale factor and translate between scale models and actual measurements (e.g.,	
lengths, area) of real-world objects and geometric figures using proportional reasoning. 7.GM.2 Construct triangles and special quadrilaterals using a variety of tools (e.g., freehand, ruler and	
protractor, technology). a. Construct triangles given all measurements of either angles or sides. b.	
Decide if the measurements determine a unique triangle, more than one triangle, or no triangle. c.	
Construct special quadrilaterals (i.e., kite, trapezoid, isosceles trapezoid, rhombus, parallelogram,	
rectangle) given specific parameters about angles or sides.	
7.GM.3 Describe two-dimensional cross-sections of three-dimensional figures, specifically right rectangular prisms and right rectangular pyramids	
7.GM.4 Investigate the concept of circles. a. Demonstrate an understanding of the proportional	
relationships between diameter, radius, and circumference of a circle. b. Understand that the constant	
of proportionality between the circumference and diameter is equivalent to π . c. Explore the	
relationship between circumference and area using a visual model. d. Use the formulas for circumference and area of circles appropriately to solve real-world and mathematical problems.	
7.GM.5 Write equations to solve problems involving the relationships between angles formed by two	
intersecting lines, including supplementary, complementary, vertical, and adjacent.	
7.GM.6 Apply the concepts of two- and three-dimensional figures to real-	Nature's Skyscrapers
world and mathematical situations. a. Understand that the concept of area	, '
is applied to two-dimensional figures such as triangles, quadrilaterals, and	
polygons. b. Understand that the concepts of volume and surface area are	
applied to three dimensional figures such as cubes, right rectangular	
prisms, and right triangular prisms. c. Decompose cubes, right rectangular	
prisms, and right triangular prisms into rectangles and triangles to derive	
the formulas for volume and surface area. d. Use the formulas for area,	
volume, and surface area appropriately.	
7.DSP.1* Investigate concepts of random sampling. a. Understand that a sample is a subset of a	
population and both possess the same characteristics. b. Differentiate between random and non-random sampling. c. Understand that generalizations from a sample are valid only if the sample is representative of the population. d. Understand that random sampling is used to gather a	
representative sample and supports valid inferences about the population.	

7.DSP.2* Draw inferences about a population by collecting multiple	Forest in a City
random samples of the same size to investigate variability in estimates of	Every Drop Counts
the characteristic of interest.	Discover Diversity
7.DSP.3 Visually compare the centers, spreads, and overlap of two displays of data (i.e., dot plots, histograms, box plots) that are graphed on the same scale and draw inferences about this data.	
7.DSP.4* Compare the numerical measures of center (mean, median, mode) and variability (range, interquartile range, mean absolute deviation) from two random samples to draw inferences about the populations.	
7.DSP.5 Investigate the concept of probability of chance events. a. Determine probabilities of simple events. b. Understand that probability measures likelihood of a chance event occurring. c. Understand that the probability of a chance event is a number between 0 and 1. d. Understand that a probability closer to 1 indicates a likely chance event. e. Understand that a probability close to 1 2 indicates that a chance event is neither likely nor unlikely. f. Understand that a probability closer to 0 indicates an	
unlikely chance event. 7.DSP.6* Investigate the relationship between theoretical and experimental probabilities for simple	
events. a. Determine approximate outcomes using theoretical probability. b. Perform experiments that model theoretical probability. c. Compare theoretical and experimental probabilities.	
7.DSP.7* Apply the concepts of theoretical and experimental probabilities for simple events. a. Differentiate between uniform and non-uniform probability models (distributions). b. Develop both uniform and non-uniform probability models. c. Perform experiments to test the validity of probability models.	
7.DSP.8* Extend the concepts of simple events to investigate compound events. a. Understand that the probability of a compound event is between 0 and 1. b. Identify the outcomes in a sample space using	
organized lists, tables, and tree diagrams. c. Determine probabilities of compound events using organized lists, tables, and tree diagrams. d. Design and use simulations to collect data and determine probabilities. e. Compare theoretical and experimental probabilities for compound events.	

Grade 7 Reverse Correlations – Mathematics

PLT Activity	Mathematics Standard
Discover Diversity	7.DSP.2
Every Drop Counts	7.DSP.2
Getting Outside	7.RP.1
Water Wonders	7.RP.3
Exploration Energy	7.NS3, 7.RP.1
Field, Forest, & Stream	7.RP.2
Forest in the City	7DSP.2, 7.NS.3, 7.RP.2
If You Were the Boss	7.NS.3, 7.RP.1, 7.RP.2
Nature's Skyscrapers	7.GM.6, 7.NS.3, 7.RP.2, 7.RP.3
Nothing Succeeds like Succession	7.RP.2, 7.RP.3
Our Federal Forests	7.RP.2
Reduce, Reuse, Recycle	7.RP.2
Renewable or Not	7.NS.3, 7.RP.2
The Global Climate	7.RP.2
What's in a Label	7.RP.2

Grade 7 ELA Standards Correlation to PLT Activities

	Standards	PLT Activities
	Standard 1: Formulate relevant, self-generated questions based on interests and/or needs that can be investigated.	Every Drop Counts Fallen Log Tree Cookies
		Web of Life Decisions, Decisions
	Standard 2: Transact with texts to formulate questions, propose explanations, and consider alternative views and multiple perspectives.	Forest in the City Trees for Many Reasons(V) Decisions, Decisions Environmental Justice for All If You Were the Boss
INQUIRY	Standard 3: Construct knowledge, applying disciplinary concepts and tools, to build deeper understanding of the world through exploration, collaboration, and analysis.	Energy Exploration Did You Notice (V) Fallen Log Tree Cookies Decisions, Decisions Environmental Justice for All Exploration Energy Forest in the City Improve Your Place Invasive Species
	Standard 4: Synthesize integrated information to share learning and/or take action.	Every Drop Counts Fallen Log Decisions, Decisions Environmental Justice for All Exploration Energy Forest in the City Global Goods (E) Invasive Species Plant a Tree
	Standard 5: Reflect throughout the inquiry process to assess metacognition, broaden understanding, and guide actions, both individually and collaboratively.	

Standards	PLT Activities
Standard 1: Demonstrate understanding of the organization and basic features of print.	
Standard 2: Demonstrate understanding of spoken words, syllables, and sounds.	
Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
Standard 5: Determine meaning and develop logical interpretations by making predictions, inferring, drawing conclusions, analyzing, synthesizing, providing evidence, and investigating multiple interpretations.	
Standard 6: Summarize key details and ideas to support	Trees for Many Reasons(V)
analysis of thematic development.	
Standard 7: Analyze the relationship among ideas, themes, or topics in multiple media, formats, and in visual, auditory, and kinesthetic modalities.	

Standard 8: Analyze characters, settings, events, and ideas as	Trees for Many Reasons(V)
they develop and interact within a particular context.	
Standard 9: Interpret and analyze the author's use of words,	Trees for Many Reasons(V)
phrases, and conventions, and how their relationships shape	
meaning and tone in print and multimedia texts.	
Standard 10: Apply a range of strategies to determine and deepen the meaning of known, unknown, and multiple-meaning words, phrases, and jargon; acquire and use general academic and domain-specific vocabulary.	
Standard 11: Analyze and provide evidence of how the	Trees for Many Reasons(V)
author's choice of point of view, perspective, and purpose	
shape content, meaning, and style.	
Standard 12: Analyze and critique how the author uses	Trees for Many Reasons(V)
structures in print and multimedia texts to shape meaning and	
impact the reader.	
Standard 13: Read independently and comprehend a variety of texts for the purposes of reading for enjoyment, acquiring new learning, and building stamina; reflect on and respond to increasingly complex text over time.	

	Standards	PLT Activities
	Standard 1: Demonstrate understanding of the organization and basic features of print.	
	Standard 2: Demonstrate understanding of spoken words, syllables, and sounds.	
	Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
	Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
READING: INFORMATIONAL TEXT	Standard 5: Determine meaning and develop logical interpretations by making predictions, inferring, drawing conclusions, analyzing, synthesizing, providing evidence and investigating multiple interpretations.	Environmental Justice for All If You Were the Boss Nothing Succeeds like Succession
	Standard 6: Summarize key details and ideas to support analysis of central ideas.	Tree Cookies Environmental Justice for All Exploration Energy Global Goods (V) Invasive Species Life on the Edge
	Standard 7: Research events, topics, ideas, or concepts through multiple media, formats, and in visual, auditory, and kinesthetic modalities.	Charting Biodiversity Tree Cookies Web of Life Environmental Justice for All Exploration Energy Global Goods Invasive Species Life on the Edge Renewable or Not

Standard 8: Interpret and analyze the author's use of words, phrases, text features, conventions, and structures, and how their relationships shape meaning and tone in print and multimedia texts.	
Standard 9: Apply a range of strategies to determine the	Renewable or Not
meaning of known, unknown, and multiple meaning words,	
phrases, and jargon; acquire and use general academic and	
domain-specific vocabulary.	
Standard 10: Analyze and provide evidence of how the author's choice of purpose	
and perspective shapes content, meaning, and style.	
Standard 11: Analyze and critique how the author uses structures in print and	
multimedia texts to craft informational and argument writing.	
Standard 12: Read independently and comprehend a variety of texts for the purposes	
of reading for enjoyment, acquiring new learning, and building stamina; reflect on	
and respond to increasingly complex text over time.	

	Standards	PLT Activities
WRITING	Standard 1: Write arguments to support claims with clear reasons and relevant evidence.	Global Goods (E) What's in a Label
	Standard 2: Write informative/explanatory texts to examine and convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content.	Trees in Trouble (V) (E) Water Wonders Web of Life Decisions, Decisions Environmental Justice for All Forest in the City If You Were the Boss Improve Your Place Life on the Edge Nothing Succeeds Like Succession
	Standard 3: Write narratives to develop real or imagined experiences or events using effective techniques, well-chosen details, and well-structured event sequences.	Water Wonders If You Were the Boss
	Standard 4: Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	Trees in Trouble (E) Water Wonders Web of Life Decisions, Decisions Environmental Justice for All Global Goods (E) If You Were the Boss Improve Your Place Life on the Edge What's in a Label
	Standard 5: Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.	Trees in Trouble (E) Water Wonders Web of Life Decisions, Decisions Global Goods (E)

	If You Were the Boss
	Improve Your Place
	Life on the Edge
	What's in a Label
Standard 6: Write independently, legibly, and routinely for a	Poet Tree (V)
variety of tasks, purposes, and audiences over short and	Trees in Trouble (E)
extended time frames.	Water Wonders
	Web of Life
	Global Goods (E)
	If You Were the Boss
	Improve Your Place
	What's in a Label

	Standards	PLT Activities
	Standard 1: Interact with others to explore ideas and	Charting Biodiversity
	concepts, communicate meaning, and develop logical	Discover Diversity
	interpretations through collaborative conversations; build	Peek at Packaging (V)
	upon the ideas of others to clearly express one's own views	Tree Cookies
	while respecting diverse perspectives.	Trees for Many Reasons
		Decisions, Decisions
		Environmental Justice for
		All
		Exploration Energy
		Forest in the City
		If You Were the Boss
_		Improve Your Place
ō		Invasive Species
Ē		Plant a Tree
S		Renew or Not
Z		What's in a Label
€		Our Federal Forests
COMMUNICATION	Standard 2: Articulate ideas, claims, and perspectives in a	Charting Biodiversity
ō	logical sequence using information, findings, and credible	Discover Diversity
S	evidence from sources.	Tree Cookies
		Decisions, Decisions
		Environmental Justice for All
		Energy Exploration
		The Global Climate
		If You Were the Boss
		Improve Your Place
		Invasive Species
		Life on the Edge
	Standard 3: Communicate information through strategic use	Charting Biodiversity
	of multiple modalities and multimedia to enrich	Discover Diversity
	understanding when presenting ideas and information.	Poet Tree (V)
		Decisions, Decisions

	Environmental Justice for
	All
	Energy Exploration
	The Global Climate
	If You Were the Boss
	Improve Your Place
	Invasive Species
	Life on the Edge
	Our Federal Forests
	Reduce, Reuse, Recycle
	What's in a Label
Standard 4: Critique how a speaker addresses content and	Poet Tree (V)
uses craft techniques that stylistically and structurally inform,	Decisions, Decisions
engage, and impact audience and convey messages.	Environmental Justice for
	All
	Energy Exploration
	If You Were the Boss
	Invasive Species
	Life on the Edge
Standard 5: Incorporate craft techniques to engage and	Poet Tree (V)
impact audience and convey messages.	Decisions, Decisions
, ,	Environmental Justice for
	All

(V) Variation for 6-8 (E) Enrichment Activity

Grade 7 Reverse Correlations – English Language Arts

PLT Activity	Standard
Charting Biodiversity	7.RI.7, 7.C.1, 7.C.2,7.C.3
Discover Diversity	7.C.1, 7.C.2, 7.C.3
Every Drop Counts	7.1.1, 7.1.4
Fallen Log	7.1.1, 7.1.3, 7.1.4
Peek at Packaging (V)	7.C.1
Poet Tree (V)	7.W.6, 7.C.3, 7.C.4, 7.C.5
Tree Cookies	7.I.1, 7.I.3, 7.RI.6, 7.RI.7, 7.C.1, 7.C.2
Trees for Many Reasons (V)	7.I.2, 7.RL.6, 7.RL.8, 7.RL.9, 7.RL.11, 7.RL.12, 7.C1
Trees in Trouble (V) (E)	7.W.2, 7.W.4, 7.W.5, 7.W.6
Water Wonders	7.W.2, 7.W.3, 7.W.4, 7.W.5, 7.W.6
Web of Life	7.I.1, 7.RI.7, 7.W.2, 7.W.4, 7.W.5, 7.W.6
Decisions, Decisions	7.I.1, 7.I.2, 7.I.3, 7.I.4, 7.W.2, 7.W.4, 7.W.5, 7.C.1, 7.C.2, 7.C.3, 7.C.4,
	7.C.5
Environmental Justice for All	7.I.2, 7.I.3, 7.I.4, 7.RI.5, 7.RI.6, 7.RI.7, 7.W.2, 7.W.4, 7.C.1, 7.C.2,
	7.C.3, 7.C.4, 7.C.5
Exploration Energy	7.I.3, 7.I.4, 7.RI.6, 7.RI.7, 7.C.1, 7.C.2, 7.C.3, 7.C.4
Forest in the City	7.I.1, 7.I.3, 7.I.4, 7.W.2, 7.C.1

Global Goods (E)	7.I.4, 7.RI.6, 7.RI.7, 7.W.1, 7.W.4, 7.W.5, 7.W.6
If You Were the Boss	7.I.2, 7.RI.5, 7.W.2, 7.W.3, 7.W.4, 7.W.5, 7.W.6, 7.C.1,7.C.2, 7.C.3,
	7.C.4
Improve Your Place	7.I.3, 7.I.4, 7.W.2, 7.W.4, 7.W.5, 7.W.6, 7.C.1, 7.C.2, 7.C.3
Invasive Species	7.I.3, 7.I.4, 7.RI.6, 7.RI.7, 7.C.1,7.C.2, 7.C.3, 7.C.4
Life on the Edge	7.RI.6, 7.RI.7, 7.W.2, 7.W.4, 7.W.5, 7.C.2, 7.C.3, 7.C.4
Nothing Succeeds Like	7.RI.5, 7.W.2
Succession	
Our Federal Forests	7.C.1, 7.C.3
Plant a Tree	7.I.4, 7.C.1
Reduce, Reuse, Recycle	7.C.3
Renewable or Not	7.I.1, 7.RI.7, 7.RI.9, 7.C.1
The Global Climate	7.C.2, 7.C.3
What's in a Label	7.W.1, 7.W.4, 7.W.5, 7.W.6, 7.C.1, 7.C.3

Grade 7 Social Studies Standards Correlation to PLT Activities

Standards	PLT Activities
Standard 1: Analyze the cultural, economic, environmental, physical, political, and population geographies of	
contemporary Africa	
7.1.1.PR Identify select African physical systems and human characteristics of places.	
7.1.2.ER Identify climate and vegetation regions of Africa and the spatial distributions and patterns of natural	
resources, including the impact of their location on human activities.	
7.1.3.HS Explain Africa's current human population distributions and patterns, and use geographic models to	
compare the conditions driving migration and demographic change.	
7.1.4.HS Compare and contrast the dynamic physical and human conditions that lead to the creation of	
ethnic, gender, language, and religious landscapes of African societies.	
7.1.5.HS Identify and analyze the current political borders using maps, and explain the connections between	
African places and other continents based upon factors such as colonialism, imperialism, independence	
movements, and regional alliances.	
7.1.6.AG Gather evidence and construct a map or model to investigate a significant contemporary cultural,	
economic, or political issue facing Africa at the local, regional, or global scale.	
Standard 2: Analyze the cultural, economic, environmental, physical, political, and population geographies of	
contemporary Asia.	
7.2.1.PR Identify select Asian physical systems and human characteristics of places.	
7.2.2.ER Identify climate and vegetation regions of Asia and the spatial distributions and patterns of natural	
resources, including the impact of their location on human activities.	
7.2.3.HS Explain Asia's current human population distributions and patterns, and use geographic models to	
compare the conditions driving migration and demographic change.	
7.2.4.HS Compare and contrast the physical and human conditions that lead to the creation of dynamic	
ethnic, gender, language, and religious landscapes of Asian societies.	
7.2.5.HS Identify and analyze the current political borders using maps, and explain the economic, political,	
and social connections between Asian places and other continents.	
7.2.6.AG Gather evidence and construct a map or model to investigate a significant contemporary cultural,	
economic, or political issue facing Asia at the local, regional, or global scale.	
Standard 3: Analyze the cultural, economic, environmental, physical, political, and population geographies of	
contemporary Australia, Oceania, and Antarctica	
7.3.1.PR Identify select Australia, Oceania, and Antarctica physical systems and human characteristics of	
places.	
7.3.2.ER Identify climate and vegetation regions and the spatial distributions and patterns of natural	
resources, including the impact of their location on human activities.	
7.3.3.HS Explain the current human population distributions and patterns of Australia, Oceania, and	
Antarctica, and use geographic models to compare the conditions driving migration and demographic change.	

7.3.4.HS Compare and contrast the dynamic physical and human conditions that lead to the creation of	
ethnic, gender, language, and religious landscapes of Australia, Oceania, and Antarctica.	
7.3.5.HS Identify and analyze the current political boarders using maps, and explain resource relationships	
between Australia, Oceania, and Antarctica and other continents different culture groups throughout history.	
Standard 4: Analyze the cultural, economic, environmental, physical, political, and population geographies of	
contemporary Europe.	
7.4.1.PR Identify select European physical systems and human characteristics of places.	
7.4.2.ER Identify climate and vegetation regions and the spatial distributions and patterns of natural	
resources, including the impact of their location on human activities.	
7.4.3.HS Explain Europe's current human population distributions and patterns, and use geographic models to	
compare the conditions driving migration and demographic change.	
7.4.3.HS Explain Europe's current human population distributions and patterns, and use geographic models to	
compare the conditions driving migration and demographic change	
7.4.4.HS Compare and contrast the dynamic physical and human conditions that lead to the creation of	
ethnic, gender, language, and religious landscapes of European societies.	
7.4.5.HS Identify and analyze the current political borders using maps, and explain the connections between	
European countries based upon centripetal and centrifugal forces, as well as connections between European	
places and other continents.	
7.4.6.AG Gather evidence and construct a map or model to investigate a significant contemporary cultural,	
economic, or political issue facing Europe at the local, regional, or global scale.	
Standard 5: Analyze the cultural, economic, environmental, physical, political, and population	
geographies of contemporary North America.	
7.5.1.PR Identify select North American physical systems and human characteristics of places.	
7.5.2.ER Identify climate and vegetation regions and the spatial distributions and patterns of natural	
resources, including the impact of their location on human activities.	
7.5.3.HS Explain North America's current human population distributions and patterns, and use geographic	
models to compare the conditions driving migration and demographic change.	
7.5.4.HS Compare and contrast the dynamic physical and human conditions that lead to the creation of	
ethnic, gender, language, and religious landscapes of North American societies.	
7.5.5.HS Identify and analyze the current political borders using maps, explain the economic, political, and	
social inequalities present in North American societies, and explain the connections between North American	
places and other continents.	
7.5.6.AG Gather evidence and construct a map or model to investigate a	Decisions,
significant contemporary cultural, economic, or political issue facing North	Decisions
America at the local, regional, or global scale.	Global Goods
	The Global Climate
	What's in a Label
Standard 6: Analyze the cultural, economic, environmental, physical, political, and population geographies of	TTTTACE III G LABOU
contemporary South America .	
7.6.1.PR Identify select South American physical systems (e.g., landforms and bodies of water), and human	
characteristics of places (e.g., countries and cities).	
7.6.2.ER Identify climate and vegetation regions and the spatial distributions and patterns of natural	
resources, including the impact of their location on human activities.	
7.6.3.HS Explain South America's current human population distributions and patterns, and use geographic	
models to compare the conditions driving migration and demographic change.	
7.6.4.HS Compare and contrast the dynamic physical and human conditions that lead to the creation of	
ethnic, gender, language, and religious landscapes of South American societies.	
7.6.5.HS Identify and analyze the current political borders using maps, explain the economic, political, and	
social inequalities present in South American societies, and explain the connections between South American	
places and other continents.	
7.6.6.AG Gather evidence and construct a map or model to investigate a significant contemporary cultural,	
economic, or political issue facing South America at the local, regional, or global scale.	

Grade 7 Reverse Correlations - Social Studies

PLT Activity	Social Studies Standard
Decisions, Decisions	7.5.6.AG
Global Goods	7.5.6.AG
The Global Climate	7.5.6.AG
What's in a Label	7.5.6.AG

GRADE EIGHT STANDARDS

Grade 8 Science Performance Expectations Correlation to PLT Activities

Performance Expectations	PLT Activities
8-PS2-1. Apply Newton's third law to design a solution to a problem involving the motion of	
two colliding objects.	
8-PS2-2. Plan an investigation to provide evidence that the change in an object's motion	
depends on the sum of the forces on the object and the mass of the object.	
8-PS2-3. Analyze and interpret data to determine the factors that affect the strength of	
electric and magnetic forces.	
8-PS2-4. Construct and present arguments using evidence to support the claim that	
gravitational interactions are attractive and depend on the masses of interacting objects and	
the distance between them	
8-PS2-5. Conduct an investigation and evaluate the experimental design to provide evidence	
that fields exist between objects exerting forces on each other even though the objects are	
not in contact.	
8-PS4-1. Using mathematical representations, describe a simple model for waves that	
includes how the amplitude of a wave is related to the energy in a wave.	
8-PS4-3. Communicate information to support the claim that digital devices are used to	
improve our understanding of how waves transmit information.	Have Canda Mill Travel
8-LS1-4. Use arguments, based on empirical evidence and scientific	Have Seeds, Will Travel
reasoning, to support an explanation for how characteristic animal	
behaviors and specialized plant structures affect the probability of	
successful reproduction of animals and plants respectively.	
·	Hana Ma Guarra Anain
8-LS1-5. Construct a scientific explanation based on evidence for how	Here We Grow Again
environmental and genetic factors influence the growth of organisms.	Every Tree for Itself
	Tree Cookies
	Trees in Trouble
	Field, Forest & Stream
	Life on the Edge
8-LS3-1. Develop and use a model to describe why structural changes to genes (mutations)	Life off the Luge
located on chromosomes may affect proteins and may result in harmful, beneficial, or	
neutral effects to the structure and function of the organism.	
8-LS3-2. Develop and use a model to describe why asexual reproduction results in offspring	
with identical genetic information and sexual reproduction results in offspring with genetic	
variation.	
8-LS4-1. Analyze and interpret data for patterns in the fossil record that document the	
existence, diversity, extinction, and change of life forms throughout the history of life on	
Earth under the assumption that natural laws operated in the past as they do today.	
8-LS4-2. Apply scientific ideas to construct an explanation for the anatomical similarities and	
differences among modern organisms and between modern and fossil organisms to infer	
their ancestral relationships.	
8-LS4-4. Construct an explanation based on evidence that describes how genetic variations of	
traits in a population increase some individual's probability of surviving and reproducing in a	
specific environment.	
8-LS4-5. Gather and synthesize information about technologies that have changed the way	
humans influence the inheritance of desired traits in organisms.	

8-LS4-6. Use mathematical representations to support explanations of how natural selection	
may lead to increases and decreases of specific traits in populations over time.	
8-ESS1-1. Develop and use a model of the Earth-sun-moon system to describe the cyclic	
patterns of lunar phases, eclipses of the sun and moon, tides, and seasons.	
8-ESS1-2. Develop and use a model to describe the role of gravity in the motions within	
galaxies and the solar system.	
8-ESS1-3. Evaluate information to determine scale properties of objects in the solar system.	

Grade 8 Reverse Correlations – Science

PLT Activity	Science Performance Expectations
Have Seed, Will Travel	8-LS1-4
Here We Grow Again	8-LS1-5
Every Tree for Itself	8-LS1-5
Tree Cookies	8-LS1-5
Trees in Trouble	8-LS1-5
Field, Forest, and Stream	8-LS1-5
Life on the Edge	8-LS1-5

Grade 8 Mathematics Standards Correlation to PLT Activities

Standards	PLT Activities
8.NS.1 Explore the real number system and its appropriate usage in real-	Exploration Energy
world situations. a. Recognize the differences between rational and	If You Were the Boss
irrational numbers. b. Understand that all real numbers have a decimal	Nature's Skyscrapers
expansion. c. Model the hierarchy of the real number system, including	Reduce, Reuse, Recycle
natural, whole, integer, rational, and irrational numbers.	The Global Climate
8.NS.2 Estimate and compare the value of irrational numbers by plotting them on a number line.	
8.NS.3 Extend prior knowledge to translate among multiple representations of rational numbers (fractions, decimal numbers, percentages). Include the conversion of repeating decimal numbers to fractions.	
8.F.1 Explore the concept of functions. a. Understand that a function assigns to each input exactly one output. b. Relate inputs (x-values or domain) and outputs (y-values or range) to independent and dependent variables. c. Translate among the multiple representations of a function, including mappings, tables, graphs, equations, and verbal descriptions. d. Determine if a relation is a function using multiple representations, including mappings, tables, graphs, equations, and verbal descriptions. e. Graph a function from a table of values. Understand that the graph and table both represent a set of ordered pairs of that function. 8.F.2 Compare multiple representations of two functions, including mappings, tables, graphs, equations,	
and verbal descriptions, in order to draw conclusions. 8.F.3 Investigate the differences between linear and nonlinear functions using multiple representations (i.e., tables, graphs, equations, and verbal descriptions). a. Define an equation in slope-intercept form ($y = mx + b$) as being a linear function. b. Recognize that the graph of a linear function has a constant rate of change. c. Provide examples of nonlinear functions.	
8.F.4 Apply the concepts of linear functions to real-world and mathematical situations. a. Understand that the slope is the constant rate of change and the y -intercept is the point where $x=0$. b. Determine the slope and the y -intercept of a linear function given multiple representations, including two points, tables, graphs, equations, and verbal descriptions. c. Construct a function in slope-intercept form that models a linear relationship between two quantities. d. Interpret the meaning of the slope and the y -	

interpret of a linear function in the content of the situation of Fundamenta relationship between linear	
intercept of a linear function in the context of the situation. e. Explore the relationship between linear functions and arithmetic sequences.	
8.F.5 Apply the concepts of linear and nonlinear functions to graphs in real-world and mathematical	
situations. a. Analyze and describe attributes of graphs of functions (e.g., constant,	
increasing/decreasing, linear/nonlinear, maximum/minimum, discrete/continuous). b. Sketch the graph	
of a function from a verbal description. c. Write a verbal description from the graph of a function with	
and without scales	
8.EEI.1 Understand and apply the laws of exponents (i.e., product rule, quotient rule, power to a power, product to a power, quotient to a power, zero power property, negative exponents) to simplify	
numerical expressions that include integer exponents.	
8.EEI.2 Investigate concepts of square and cube roots. a. Find the exact and approximate solutions to	
equations of the form $x = 2$ and $x = 3$ equations of the form $x = 2$ and $x = 3$ equations of the form $x = 2$ and $x = 3$ equations of the form $x = 2$	
of perfect squares. c. Evaluate cube roots of perfect cubes. d. Recognize that square roots of non-	
perfect squares are irrational.	
8.EEI.3 Explore the relationship between quantities in decimal and scientific notation. a. Express very large and very small quantities in scientific notation in the form $a \times 10b = p$ where $1 \le a < 10$ and b is an	
integer. b. Translate between decimal notation and scientific notation. c. Estimate and compare the	
relative size of two quantities in scientific notation.	
8.EEI.4 Apply the concepts of decimal and scientific notation to solve real-	Water Wonders
world and mathematical problems. a. Multiply and divide numbers	
expressed in both decimal and scientific notation. b. Select appropriate	
1 '	
units of measure when representing answers in scientific notation. c.	
Translate how different technological devices display numbers in scientific	
notation.	
8.EEI.5 Apply concepts of proportional relationships to real-world and	Field, Forest, & Stream
mathematical situations. a. Graph proportional relationships. b. Interpret	Forest in the City
unit rate as the slope of the graph. c. Compare two different proportional	If You Were the Boss
relationships given multiple representations, including tables, graphs,	Nature's Skyscrapers
equations, diagrams, and verbal descriptions.	Reduce, Reuse, Recycle
	Renewable or Not
	What's in a Label
8.EEI.6 Apply concepts of slope and <i>y</i> -intercept to graphs, equations, and proportional relationships. a.	
Explain why the slope, m , is the same between any two distinct points on a nonvertical line using similar	
Explain why the slope, m , is the same between any two distinct points on a nonvertical line using similar triangles. b. Derive the slope-intercept form $(y = mx + b)$ for a non-vertical line. c. Relate equations for	
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Explain why the slope, m , is the same between any two distinct points on a nonvertical line using similar triangles. b. Derive the slope-intercept form $(y = mx + b)$ for a non-vertical line. c. Relate equations for proportional relationships $(y = kx)$ with the slope-intercept form $(y = mx + b)$ where $b = 0$. 8.EEI.7 Extend concepts of linear equations and inequalities in one variable to more complex multi-step equations and inequalities in real-world and mathematical situations. a. Solve linear equations and inequalities with rational number coefficients that include the use of the distributive property, combining like terms, and variables on both sides. b. Recognize the three types of solutions to linear equations: one solution $(x = a)$, infinitely many solutions $(a = a)$, or no solutions $(a = b)$. c. Generate linear equations with the three types of solutions. d. Justify why linear equations have a specific type of solution. 8.EEI.8 Investigate and solve real-world and mathematical problems involving systems of linear equations in two variables with integer coefficients and solutions. a. Graph systems of linear equations and estimate their point of intersection. b. Understand and verify that a solution to a system of linear equations is represented on a graph as the point of intersection of the two lines. c. Solve systems of linear equations algebraically, including methods of substitution and elimination, or through inspection. d. Understand that systems of linear equations can have one solution, no solution, or infinitely many solutions. 8.GM.1 Investigate the properties of rigid transformations (rotations, reflections, translations) using a variety of tools (e.g., grid paper, reflective devices, graphing paper, technology). a. Verify that lines are mapped to lines, including parallel lines. b. Verify that corresponding angles are congruent. c. Verify that	What's in a Label

Reflect geometric figures with respect to the x -axis and/or y -axis. c. Translate geometric figures	
vertically and/or horizontally. d. Recognize that two-dimensional figures are only congruent if a series of	
rigid transformations can be performed to map the pre-image to the image. e. Given two congruent	
figures, describe the series of rigid transformations that justifies this congruence.	
8.GM.3 Investigate the properties of transformations (rotations, reflections, translations, dilations) using	
a variety of tools (e.g., grid paper, reflective devices, graphing paper, dynamic software). a. Use	
coordinate geometry to describe the effect of transformations on two dimensional figures. b. Relate	
scale drawings to dilations of geometric figures	
8.GM.4 Apply the properties of transformations (rotations, reflections, translations, dilations). a. Dilate	
geometric figures using scale factors that are positive rational numbers. b. Recognize that two-	
dimensional figures are only similar if a series of transformations can be performed to map the pre-	
image to the image. c. Given two similar figures, describe the series of transformations that justifies this	
similarity. d. Use proportional reasoning to find the missing side lengths of two similar figures.	
8.GM.5 Extend and apply previous knowledge of angles to properties of triangles, similar figures, and	
parallel lines cut by a transversal. a. Discover that the sum of the three angles in a triangle is 180 degrees. b. Discover and use the relationship between interior and exterior angles of a triangle. c.	
Identify congruent and supplementary pairs of angles when two parallel lines are cut by a transversal. d.	
Recognize that two similar figures have congruent corresponding angles.	
8.GM.6 Use models to demonstrate a proof of the Pythagorean Theorem and its converse.	
6. Givi. 6 636 models to demonstrate a proof of the rythagorean medicin and its converse.	
8.GM.7 Apply the Pythagorean Theorem to model and solve real-world and mathematical problems in	
two and three dimensions involving right triangles.	
8.GM.8 Find the distance between any two points in the coordinate plane using the Pythagorean	
Theorem.	
8.GM.9 Solve real-world and mathematical problems involving volumes of cones, cylinders, and spheres	
and the surface area of cylinders	
8.DSP.1 Investigate bivariate data. a. Collect bivariate data. b. Graph the	The Global Climate
bivariate data on a scatter plot. c. Describe patterns observed on a scatter	
plot, including clustering, outliers, and association (positive, negative, no	
correlation, linear, nonlinear).	
8.DSP.2 Draw an approximate line of best fit on a scatter plot that appears to have a linear association	
and informally assess the fit of the line to the data points.	
8.DSP.3 Apply concepts of an approximate line of best fit in real-world situations. a. Find an approximate	
equation for the line of best fit using two appropriate data points. b. Interpret the slope and intercept. c.	
Solve problems using the equation.	
8.DSP.4* Investigate bivariate categorical data in two-way tables. a.	Forest in the City
	,
Organize bivariate categorical data in a two-way table. b. Interpret data in	Our Federal Forests
two-way tables using relative frequencies. c. Explore patterns of possible	Reduce, Reuse, Recycle
association between the two categorical variables.	Renewable or Not
	The Global Climate
	Every Drop Counts
8.DSP.5* Organize data in matrices with rational numbers and apply to real-world and mathematical	
situations. a. Understand that a matrix is a way to organize data. b. Recognize that a $m \times n$ matrix has m	
rows and n columns. c. Add and subtract matrices of the same size. d. Multiply a matrix by a scalar.	

Grade 8 Reverse Correlations – Mathematics

PLT Activity	Mathematics Standard
Every Drop Counts	8.DSP.4
Water Wonders	8.EEI.4
Exploration Energy	8.NS.1
Field, Forest, & Stream	8.EEI.5
Forest in the City	8.EEI.5, 8.DSP.4
If You Were the Boss	8.NS.1, 8.EEI.5

Nature's Skyscrapers	8.NS.1, 8.EEI.5, 8.EEI.7
Our Federal Forests	8.DSP.4
Reduce, Reuse, Recycle	8.NS.1, 8.EEI.5, 8.DSP.4
Renewable or Not	8.EEI.5, 8.DSP.4
The Global Climate	8.NS.1, 8.DSP.1, 8.DSP.4
What's in a Label	8.EEI.5

Grade 8 ELA Standards Correlation to PLT Activities

	Standards	PLT Activities
	Standard 1: Formulate relevant, self-generated questions based on interests and/or needs that can be investigated.	Every Drop Counts Fallen Log
	,	Tree Cookies
		Web of Life Decisions, Decisions
		Forest in the City
	Standard 2: Transact with texts to formulate questions, propose explanations, and consider alternative views and	Trees for Many Reasons(V) Decisions, Decisions
	multiple perspectives.	Environmental Justice for All If You Were the Boss
	Standard 3: Construct knowledge, applying disciplinary concepts and tools, to build deeper understanding of the	Energy Exploration Did You Notice (V)
≿	world through exploration, collaboration, and analysis.	Fallen Log
INQUIRY		Tree Cookies Decisions, Decisions
Q		Environmental Justice for All
=		Exploration Energy
		Forest in the City
		Improve Your Place
	Standard 4: Synthesize integrated information to share	Invasive Species Every Drop Counts
	learning and/or take action.	Fallen Log
	rearring and, or take detroit.	Decisions, Decisions
		Environmental Justice for All
		Exploration Energy
		Forest in the City
		Global Goods (E)
		Invasive Species Plant a Tree
	Standard 5: Reflect throughout the inquiry process to assess metacognition, broaden understanding, and guide actions, both individually and collaboratively.	Trained free

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Standards	PLT Activities
Standard 1: Demonstrate understanding of the organization and basic features of print.	
Standard 2: Demonstrate understanding of spoken words, syllables, and sounds.	
Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
Standard 5: Determine meaning and develop logical interpretations by making predictions, inferring, drawing conclusions, analyzing, synthesizing, providing evidence, and investigating multiple interpretations.	
Standard 6: Summarize key details and ideas to support	Trees for Many Reasons(V)
analysis of thematic development.	
Standard 7: Analyze the relationship among ideas, themes, or topics in multiple media, formats, and in visual, auditory, and kinesthetic modalities.	
Standard 8: Analyze characters, settings, events, and ideas as	Trees for Many Reasons(V)
they develop and interact within a particular context.	
Standard 9: Interpret and analyze the author's use of words,	Trees for Many Reasons(V)
phrases, and conventions, and how their relationships shape	
meaning and tone in print and multimedia texts.	
Standard 10: Apply a range of strategies to determine and deepen the meaning of known, unknown, and multiple-meaning words, phrases, and jargon; acquire and use general academic and domain-specific vocabulary.	
Standard 11: Analyze and provide evidence of how the	Trees for Many Reasons(V)
author's choice of point of view, perspective, and purpose	
shape content, meaning, and style.	
Standard 12: Analyze and critique how the author uses	Trees for Many Reasons(V)
structures in print and multimedia texts to shape meaning and	
impact the reader.	
Standard 13: Read independently and comprehend a variety of texts for the purposes of reading for enjoyment, acquiring new learning, and building stamina; reflect on and respond to increasingly complex text over time.	

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Standards	PLT Activities
Standard 1: Demonstrate understanding of the organization and basic features of print.	
Standard 2: Demonstrate understanding of spoken words, syllables, and sounds.	
Standard 3: Know and apply grade-level phonics and word analysis skills in decoding words.	
Standard 4: Read with sufficient accuracy and fluency to support comprehension.	
Standard 5: Determine meaning and develop logical interpretations by making predictions, inferring, drawing conclusions, analyzing, synthesizing, providing evidence and investigating multiple interpretations.	Environmental Justice for All If You Were the Boss Nothing Succeeds like Succession
Standard 6: Summarize key details and ideas to support analysis of central ideas.	Tree Cookies Environmental Justice for All Exploration Energy Global Goods (E) Invasive Species

	Life on the Edge
Standard 7: Research events, topics, ideas, or concepts	Charting Biodiversity
through multiple media, formats, and in visual, auditory, and	Tree Cookies
kinesthetic modalities.	Web of Life
	Environmental Justice for
	All
	Exploration Energy
	Global Goods
	Invasive Species
	Life on the Edge
	Renewable or Not
Standard 8: Interpret and analyze the author's use of words, phrases, text features, conventions, and structures, and how their relationships shape meaning and tone in print and multimedia texts.	
Standard 9: Apply a range of strategies to determine the	Renewable or Not
meaning of known, unknown, and multiple meaning words,	
phrases, and jargon; acquire and use general academic and	
domain-specific vocabulary.	
Standard 10: Analyze and provide evidence of how the author's choice of purpose	
and perspective shapes content, meaning, and style.	
Standard 11: Analyze and critique how the author uses structures in print and	
multimedia texts to craft informational and argument writing.	
Standard 12: Read independently and comprehend a variety of texts for the purposes	
of reading for enjoyment, acquiring new learning, and building stamina; reflect on	
and respond to increasingly complex text over time.	

	Standards	PLT Activities
	Standard 1: Write arguments to support claims with clear	Global Goods (E)
	reasons and relevant evidence.	What's in a Label
	Standard 2: Write informative/explanatory texts to examine	Trees in Trouble (V) (E)
	and convey complex ideas and information clearly and	Water Wonders
	accurately through the effective selection, organization, and	Web of Life
	analysis of content.	Decisions, Decisions
		Environmental Justice for
		All
WRITING		Forest in the City
∣ ≓		If You Were the Boss
\blacksquare		Improve Your Place
		Life on the Edge
		Nothing Succeeds Like
		Succession
	Standard 3: Write narratives to develop real or imagined	Water Wonders
	experiences or events using effective techniques, well-chosen	If You Were the Boss
	details, and well-structured event sequences.	
	Standard 4: Demonstrate command of the conventions of	Trees in Trouble (E)
	standard English grammar and usage when writing or	Water Wonders
	speaking.	Web of Life
		Decisions, Decisions

	Environmental Justice for All Global Goods (E) If You Were the Boss Improve Your Place Life on the Edge
	What's in a Label
Standard 5: Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.	Trees in Trouble (E) Water Wonders Web of Life
When wheng.	Decisions, Decisions Global Goods (E)
	If You Were the Boss Improve Your Place Life on the Edge What's in a Label
Standard 6: Write independently, legibly, and routinely for a	Poet Tree (V)
variety of tasks, purposes, and audiences over short and	Trees in Trouble (E)
extended time frames.	Water Wonders
	Web of Life
	Global Goods (E)
	If You Were the Boss
	Improve Your Place
	What's in a Label

	Standards	PLT Activities
	Standard 1: Interact with others to explore ideas and	Charting Biodiversity
	concepts, communicate meaning, and develop logical	Discover Diversity
	interpretations through collaborative conversations; build	Peek at Packaging (V)
	upon the ideas of others to clearly express one's own views	Tree Cookies
	while respecting diverse perspectives.	Trees for Many Reasons
 _		Decisions, Decisions
6		Environmental Justice for
ΙĔ		All
COMMUNICATION		Exploration Energy
Ž		Forest in the City
]		If You Were the Boss
≥		Improve Your Place
		Invasive Species
Ö		Plant a Tree
		Renew or Not
		What's in a Label
		Our Federal Forests
	Standard 2: Articulate ideas, claims, and perspectives in a	Charting Biodiversity
	logical sequence using information, findings, and credible	Discover Diversity
	evidence from sources.	Tree Cookies
		Decisions, Decisions

	Environmental Justice for All Energy Exploration The Global Climate If You Were the Boss Improve Your Place Invasive Species Life on the Edge
Standard 3: Communicate information through strategic use of multiple modalities and multimedia to enrich understanding when presenting ideas and information.	Charting Biodiversity Discover Diversity Poet Tree (V) Decisions, Decisions Environmental Justice for All Energy Exploration The Global Climate If You Were the Boss Improve Your Place Invasive Species Life on the Edge Our Federal Forests Reduce, Reuse, Recycle What's in a Label
Standard 4: Critique how a speaker addresses content and uses craft techniques that stylistically and structurally inform, engage, and impact audience and convey messages.	Poet Tree (V) Decisions, Decisions Environmental Justice for All Energy Exploration If You Were the Boss Invasive Species Life on the Edge
Standard 5: Incorporate craft techniques to engage and impact audience and convey messages.	Poet Tree (V) Decisions, Decisions Environmental Justice for All

(V) Variation for 6-8

(E) Enrichment Activity

Grade 8 Reverse Correlations – English Language Arts

PLT Activity	Standard
Charting Biodiversity	8.RI.7, 8.C.1, 8.C.2,8.C.3
Discover Diversity	8.C.1, 8.C.2, 8.C.3
Every Drop Counts	8.1.1, 8.1.4
Fallen Log	8.1.1, 8.1.3, 8.1.4
Peek at Packaging (V)	8.C.1

Poet Tree (V)	8.W.6, 8.C.3, 8.C.4, 8.C.5
Tree Cookies	8.I.1, 8.I.3, 8.RI.6, 8.RI.7, 8.C.1, 8.C.2
Trees for Many Reasons (V)	8.I.2, 8.RL.6, 8.RL.8, 8.RL.9, 8.RL.11, 8.RL.12, 8.C1
Trees in Trouble (V) (E)	8.W.2, 8.W.4, 8.W.5, 8.W.6
Water Wonders	8.W.2, 8.W.3, 8.W.4, 8.W.5, 8.W.6
Web of Life	8.I.1, 8.RI.7, 8.W.2, 8.W.4, 8.W.5, 8.W.6
Decisions, Decisions	8.I.1, 8.I.2, 8.I.3, 8.I.4, 8.W.2, 8.W.4, 8.W.5, 8.C.1, 8.C.2, 8.C.3, 8.C.4,
	8.C.5
Environmental Justice for All	8.1.2, 8.1.3, 8.1.4, 8.RI.5, 8.RI.6, 8.RI.7, 8.W.2, 8.W.4, 8.C.1, 8.C.2,
	8.C.3, 8.C.4, 8.C.5
Exploration Energy	8.I.3, 8.I.4, 8.RI.6, 8.RI.7, 8.C.1, 8.C.2, 8.C.3, 8.C.4
Forest in the City	8.I.1, 8.I.3, 8.I.4, 8.W.2, 8.C.1
Global Goods (E)	8.I.4, 8.RI.6, 8.RI.7, 8.W.1, 8.W.4, 8.W.5, 8.W.6
If You Were the Boss	8.I.2, 8.RI.5, 8.W.2, 8.W.3, 8.W.4, 8.W.5, 8.W.6, 8.C.1, 8.C.2, 8.C.3,
	8.C.4
Improve Your Place	8.1.3, 8.1.4, 8.W.2, 8.W.4, 8.W.5, 8.W.6, 8.C.1, 8.C.2, 8.C.3
Invasive Species	8.1.3, 8.1.4, 8.RI.6, 8.RI.7, 8.C.1, 8.C.2, 8.C.3, 8.C.4
Life on the Edge	8.RI.6, 8.RI.7, 8.W.2, 8.W.4, 8.W.5, 8.C.2, 8.C.3, 8.C.4
Nothing Succeeds Like	8.RI.5, 8.W.2
Succession	
Our Federal Forests	8.C.1, 8.C.3
Plant a Tree	8.1.4, 8.C.1
Reduce, Reuse, Recycle	8.C.3
Renewable or Not	8.I.1, 8.RI.7, 8.RI.9, 8.C.1
The Global Climate	8.C.2, 8.C.3
What's in a Label	8.W.1, 8.W.4, 8.W.5, 8.W.6, 8.C.1, 8.C.3

Grade 8 Social Studies Standards Correlation to PLT Activities*

*There are no PLT activities that correlate to these 8th grade standards.

Standards	PLT Activities
Standard 1: Demonstrate an understanding of the development of South Carolina during the settlement and colonization of North America in the period of 1500–1756.	
8.1.CO Compare the three British North American colonial regions economically, politically, socially, and in regard to labor development.	
8.1.CE Analyze the factors that contributed to the development of South Carolina's economic system and the subsequent impacts on different populations within the colony.	
8.1.P Summarize major events in the development of South Carolina which impacted the economic, political, and social structure of the colony.	
8.1.CX Contextualize the development of South Carolina's political institutions during the colonization of British North America.	
8.1.CC Analyze the changes and continuities of the Native Americans' experiences prior to and as a result of settlement and colonization.	
8.1.E Utilize a variety of primary and secondary sources to examine multiple perspectives and influences of the economic, political, and social effects of South Carolina's settlement and colonization on the development of various forms of government across the colonies.	

Standard 2: Demonstrate an understanding of how South Carolinians and Americans created a revolutionary form of
government during the period of 1757– 1815.
8.2.CO Compare the motives and demographics of loyalists and patriots within South Carolina and the colonies.
8.2.CE Explain the economic, political, and social factors surrounding the American Revolution.
8.2.P Analyze significant founding principles that led to the development of federalism in South Carolina and the United
States.
8.2.CX Contextualize the roles of various groups of South Carolinians as the colonies moved toward becoming an
independent nation.
8.2.CC Analyze the continuities and changes of how different groups immigrated to and migrated within South Carolina.
8.2.E Utilize a variety of primary and secondary sources to analyze multiple perspectives on the development of democracy
in South Carolina and the United States.
Standard 3: Demonstrate an understanding of conflict and compromise in South Carolina, the Southern region, and the
United States as a result of sectionalism between the period 1816–1865.
8.3.CO Compare the debates between South Carolina and the federal government regarding slavery, federalism, and the
Constitution
8.3.CE Examine consequences of the major Civil War military strategies.
8.3.P Analyze the Civil War Amendments (i.e., 13th, 14th, and 15th) as a turning point in the economic, political, and social
structures of South Carolina.
8.3.CX Evaluate the economic significance of agriculture on South Carolina, the U.S., and the world.
8.3.CC Analyze debates and efforts to recognize the natural rights of marginalized groups during the period of expansion
and sectionalism.
8.3.E Utilize a variety of primary and secondary sources to analyze multiple perspectives on the effects of the Civil War
within South Carolina and the United States.
8.3.E Utilize a variety of primary and secondary sources to analyze multiple perspectives on the effects of the Civil War
within South Carolina and the United States.
Standard 4: Demonstrate an understanding of South Carolina's role in and response to the dynamic economic, political, and
social developments in the United States and around the world during the period 1862–1929.
8.4.CO Compare perspectives toward reform that emerged during the Progressive Era.
8.4.CE Explain the causes and effects of World War I on South Carolina and the United States.
8.4.P Summarize the economic changes that emerged in South Carolina and the U.S.
8.4.CX Evaluate South Carolinians' struggle to create an understanding of their post-Civil War position within the state, the
country, and the world.
8.4.CC Analyze continuities and change in the African American experience in the period of Reconstruction and Jim Crow
eras within South Carolina.
8.4.E Utilize a variety of primary and secondary sources to analyze multiple perspectives of the challenges and changes
within South Carolina and the nation that allowed the U.S. to emerge as a global power during the time period 1862–1929.
Standard 5: Demonstrate an understanding of the impact of world events on South Carolina and the United States from
1929 to present.
8.5.CO Compare South Carolina and U.S. wartime contributions and demobilization after World War II.
8.5.CC Compare South Carolina and 0.5. Wartime contributions and demobilization after World War II. 8.5.CE Analyze the factors contributing to the shifts in the political party platforms between 1946–1972.
8.5.P. Analyze the transformation of South Carolina's economy from the Great Depression to its current economic
diversification.
8.5.CX Analyze the correlation between the Modern Civil Rights Movement in South Carolina and the U.S.
8.5.CC Analyze the continuities and changes in South Carolina's identity resulting from the civic participation of different
individuals and groups of South Carolinians.
8.5.E Utilize a variety of primary and secondary sources to analyze multiple perspectives on the cultural changes in South
Carolina and the U.S.